

chain nodes :

18 20 21 22 25 26

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 27 28 29 30 31 32

chain bonds :

5-9 14-20 15-25 17-18 20-21 20-22 25-26 25-30

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12 13-14 13-17 14-15  
15-16 16-17 27-28 27-32 28-29 29-30 30-31 31-32

exact/norm bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-9 13-14 13-17 14-15 14-20 15-16 16-17 17-18 20-21  
20-22 25-26

exact bonds :

15-25 25-30

normalized bonds :

7-8 7-12 8-9 9-10 10-11 11-12 27-28 27-32 28-29 29-30 30-31 31-32

isolated ring systems :

containing 1 : 7 : 27 :

G1:H,CH3

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom  
12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS 19:CLASS 20:CLASS  
21:CLASS 22:CLASS 25:CLASS 26:CLASS 27:Atom 28:Atom 29:Atom 30:Atom 31:Atom  
32:Atom

10/042619

=>

Uploading 10042619.str

L1        STRUCTURE UPLOADED

=> s l1

SAMPLE SEARCH INITIATED 12:58:32 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED --        19 TO ITERATE

100.0% PROCESSED        19' ITERATIONS

5 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:   ONLINE   \*\*COMPLETE\*\*

                         BATCH   \*\*COMPLETE\*\*

PROJECTED ITERATIONS:            119 TO        641

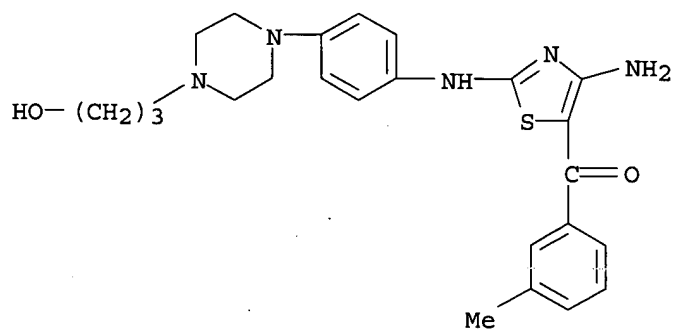
PROJECTED ANSWERS:                5 TO        234

L2                    5 SEA SSS SAM L1

=> d l2 1-5

10/042619

L2 ANSWER 1 OF 5 REGISTRY COPYRIGHT 2003 ACS  
RN 443914-79-2 REGISTRY  
CN Methanone, [4-amino-2-[[4-[4-(3-hydroxypropyl)-1-piperazinyl]phenyl]amino]-  
5-thiazolyl](3-methylphenyl)- (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C24 H29 N5 O2 S  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

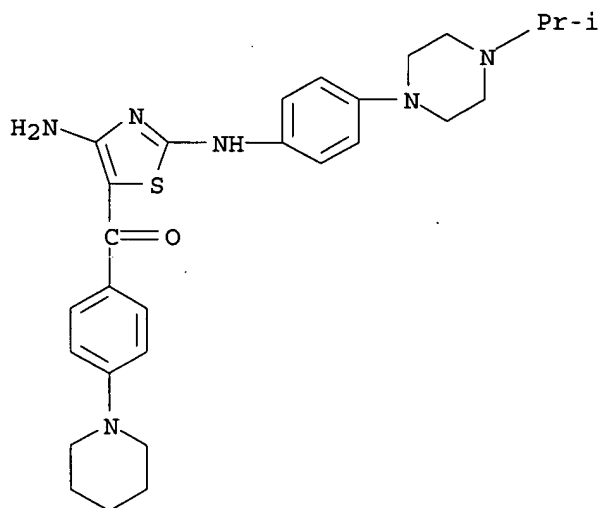


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1957 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

10/042619

L2 ANSWER 2 OF 5 REGISTRY COPYRIGHT 2003 ACS  
RN 443914-73-6 REGISTRY  
CN Methanone, [4-amino-2-[[4-[4-(1-methylethyl)-1-piperazinyl]phenyl]amino]-5-thiazolyl][4-(1-piperidinyl)phenyl]- (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C28 H36 N6 O S  
CI COM  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

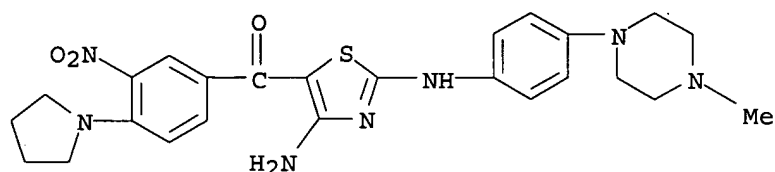


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1957 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

10/042619

L2 ANSWER 3 OF 5 REGISTRY COPYRIGHT 2003 ACS  
RN 443914-60-1 REGISTRY  
CN Methanone, [4-amino-2-[[4-(4-methyl-1-piperazinyl)phenyl]amino]-5-thiazolyl][3-nitro-4-(1-pyrrolidinyl)phenyl]- (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C25 H29 N7 O3 S  
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LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

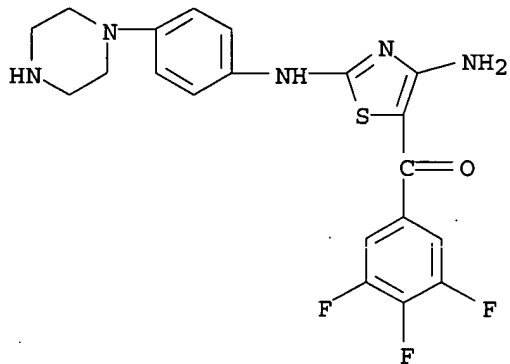


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1957 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

10/042619

L2 ANSWER 4 OF 5 REGISTRY COPYRIGHT 2003 ACS  
RN 443914-04-3 REGISTRY  
CN Methanone, [4-amino-2-[[4-(1-piperazinyl)phenyl]amino]-5-thiazolyl] (3,4,5-trifluorophenyl)- (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C20 H18 F3 N5 O S  
CI COM  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

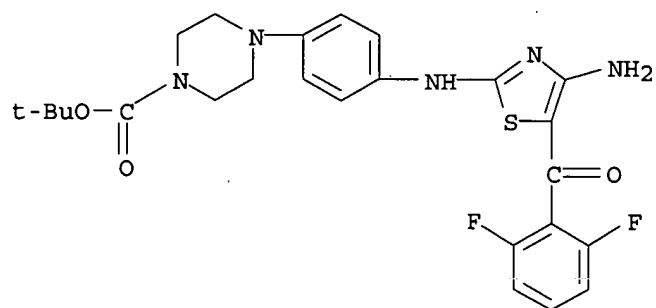


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1957 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

10/042619

L2 ANSWER 5 OF 5 REGISTRY COPYRIGHT 2003 ACS  
RN 223784-92-7 REGISTRY  
CN 1-Piperazinecarboxylic acid, 4-[4-[[4-amino-5-(2,6-difluorobenzoyl)-2-thiazolyl]amino]phenyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C25 H27 F2 N5 O3 S  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1957 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

10/042619

=> s l1 sss full

FULL SEARCH INITIATED 12:59:54 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 448 TO ITERATE

100.0% PROCESSED 448 ITERATIONS

140 ANSWERS

SEARCH TIME: 00.00.01

L3 140 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

157.75

157.96

FILE 'CAPLUS' ENTERED AT 13:00:00 ON 30 MAY 2003

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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FILE COVERS 1907 - 30 May 2003 VOL 138 ISS 23

FILE LAST UPDATED: 29 May 2003 (20030529/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L4 3 L3

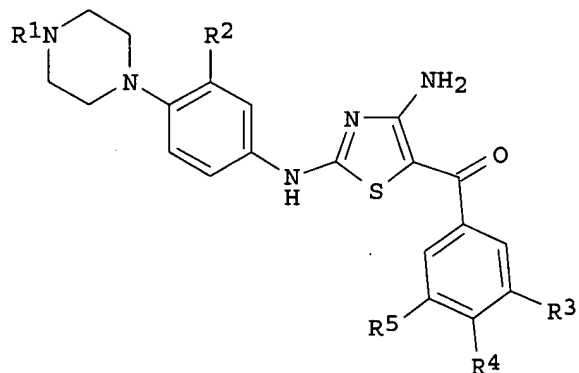
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10/042619

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2003 ACS  
AN 2002:555489 CAPLUS  
DN 137:125180  
TI Preparation of 4-amino-5-benzoyl-2-(piperazinylphenylamino)thiazoles as  
inhibitors of cyclin-dependent kinase 4.  
IN Chen, Li; Ding, Qingjie; Gillespie, Paul; Kim, Kyungjin; Lovey, Allen  
John; McComas, Warren William; Mullin, John Guilfoyle, Jr.; Perrotta,  
Agostino  
PA F. Hoffmann-La Roche A.-G., Switz.  
SO PCT Int. Appl., 150 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002057261	A2	20020725	WO 2002-EP506	20020118
	WO 2002057261	A3	20011017		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	US 2002151554	A1	20021017	US 2002-42619	20020109
PRAI	US 2001-263315P	P	20010122		
	US 2001-326807P	P	20011003		
OS	MARPAT 137:125180				
GI					



AB Title compds. [I; R1 = H, (substituted) alkyl, cycloalkyl, COR9, SO2R10; R2 = H, F, Cl, Me; R3-R5 = H, (substituted) alkyl, halo, NO2, cyano, OCF3, OCHF2, etc.; R3R4 = atoms to form a (heterocycl) ring; R9 = H, alkyl, hydroxyalkyl, haloalkyl; R10 = alkyl, chloroalkyl, fluoroalkyl, amino; with provisos], were prepd. Thus, 1-(4-isothiocyanatophenyl)-4-methylpiperazine (prepn. given), cyanamide, and KOCMe3 were stirred 30 min. in MeCN/Me3COH. 2-Bromo-1-(2,3-dihydro-1,4-benzodioxin-6-yl)ethanone was added followed by stirring for 3 days to give 66% [4-amino-2-[4-(4-methyl-1-piperazinyl)phenyl]amino-5-thiazolyl] (2,3-dihydro-1,4-benzodioxin-6-yl)methanone. The latter inhibited CDK4 with IC50 = 0.059 .mu.M.

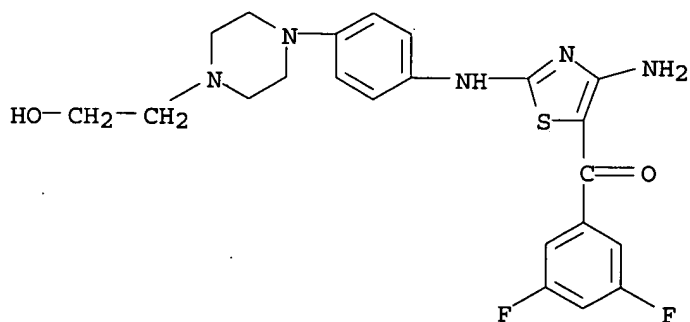
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 443914-80-5P 443914-81-6P 443914-82-7P  
 443914-83-8P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(claimed compd.; prepn. of 4-amino-5-benzoyl-2-(piperazinylphenylamino)thiazoles as inhibitors of cyclin-dependent kinase 4)

RN 443914-00-9 CAPLUS

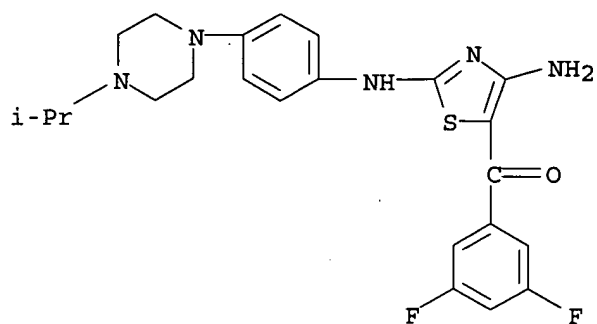
CN Methanone, [4-amino-2-[[4-[4-(2-hydroxyethyl)-1-piperazinyl]phenyl]amino]-5-thiazolyl](3,5-difluorophenyl)- (9CI) (CA INDEX NAME)



RN 443914-01-0 CAPLUS

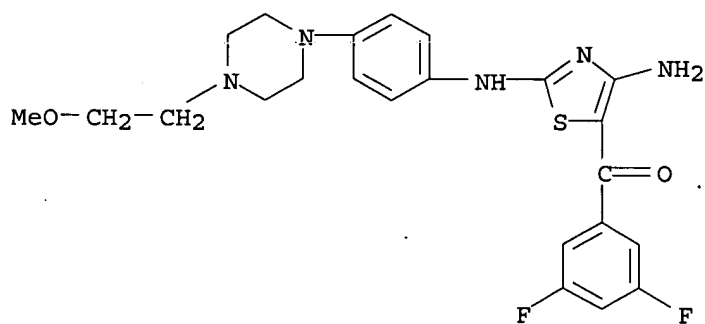
CN Methanone, [4-amino-2-[[4-[4-(1-methylethyl)-1-piperazinyl]phenyl]amino]-5-thiazolyl](3,5-difluorophenyl)- (9CI) (CA INDEX NAME)

10/042619



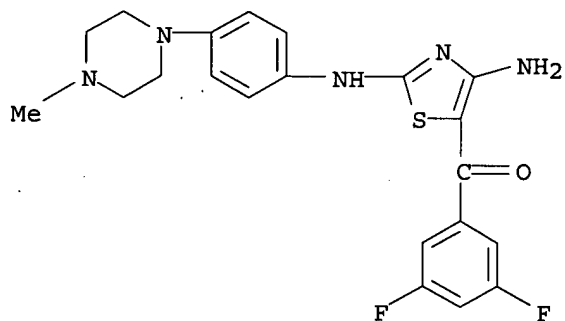
RN 443914-02-1 CAPLUS

CN Methanone, [4-amino-2-[[4-[4-(2-methoxyethyl)-1-piperazinyl]phenyl]amino]-5-thiazolyl](3,5-difluorophenyl)- (9CI) (CA INDEX NAME)



RN 443914-03-2 CAPLUS

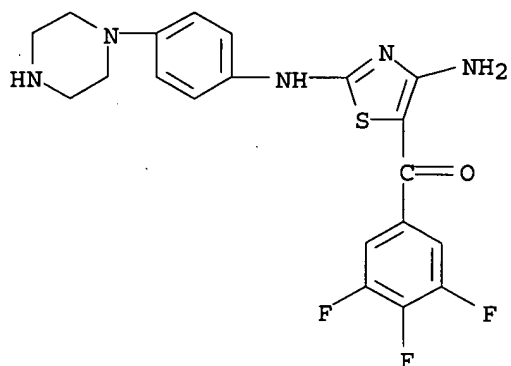
CN Methanone, [4-amino-2-[[4-(4-methyl-1-piperazinyl)phenyl]amino]-5-thiazolyl](3,5-difluorophenyl)- (9CI) (CA INDEX NAME)



RN 443914-04-3 CAPLUS

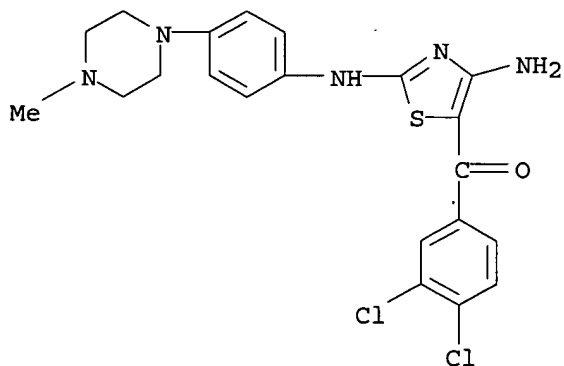
CN Methanone, [4-amino-2-[[4-(1-piperazinyl)phenyl]amino]-5-thiazolyl](3,4,5-trifluorophenyl)- (9CI) (CA INDEX NAME)

10/042619



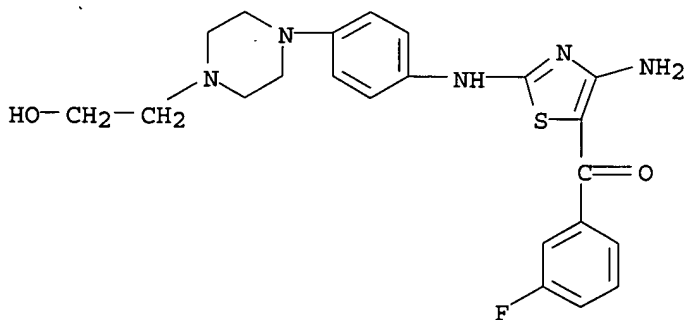
RN 443914-05-4 CAPLUS

CN Methanone, [4-amino-2-[[4-(4-methyl-1-piperazinyl)phenyl]amino]-5-thiazolyl](3,4-dichlorophenyl)- (9CI) (CA INDEX NAME)



RN 443914-06-5 CAPLUS

CN Methanone, [4-amino-2-[[4-[4-(2-hydroxyethyl)-1-piperazinyl]phenyl]amino]-5-thiazolyl](3-fluorophenyl)- (9CI) (CA INDEX NAME)

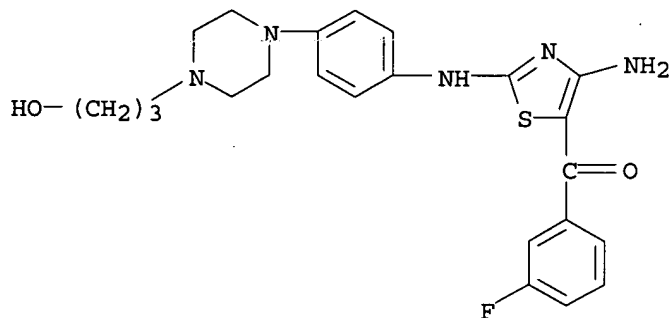


RN 443914-07-6 CAPLUS

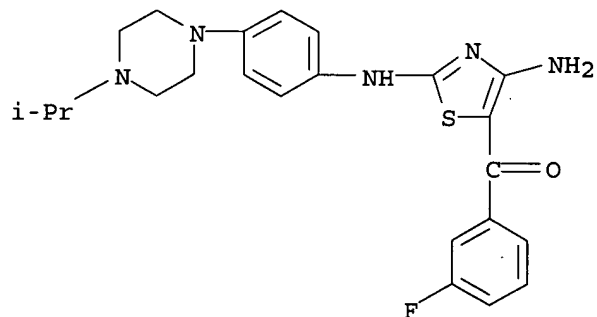
CN Methanone, [4-amino-2-[[4-(1-piperazinyl)phenyl]amino]-5-thiazolyl](3-fluorophenyl)- (9CI) (CA INDEX NAME)

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CN Methanone, [4-amino-2-[[4-[4-(3-hydroxypropyl)-1-piperazinyl]phenyl]amino]-5-thiazolyl](3-fluorophenyl)- (9CI) (CA INDEX NAME)

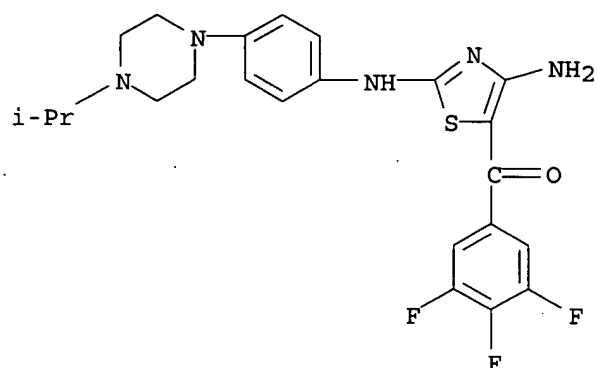


CN Methanone, [4-amino-2-[[4-[4-(1-methylethyl)-1-piperazinyl]phenyl]amino]-5-thiazolyl](3-fluorophenyl)- (9CI) (CA INDEX NAME)



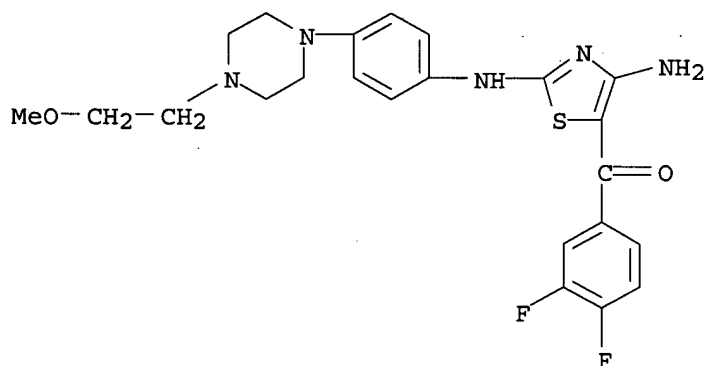
CN Methanone, [4-amino-2-[[4-[4-(1-methylethyl)-1-piperazinyl]phenyl]amino]-5-thiazolyl](3,4,5-trifluorophenyl)- (9CI) (CA INDEX NAME)

10/042619



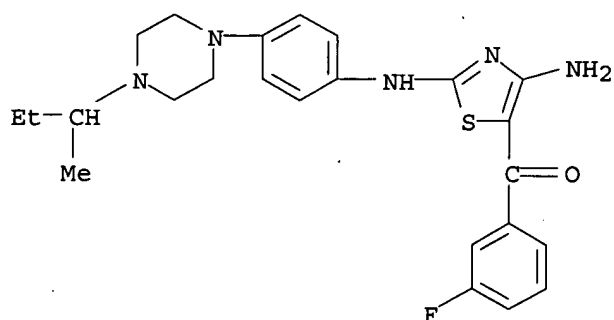
RN 443914-11-2 CAPLUS

CN Methanone, [4-amino-2-[[4-[4-(2-methoxyethyl)-1-piperazinyl]phenyl]amino]-5-thiazolyl](3,4-difluorophenyl)- (9CI) (CA INDEX NAME)



RN 443914-12-3 CAPLUS

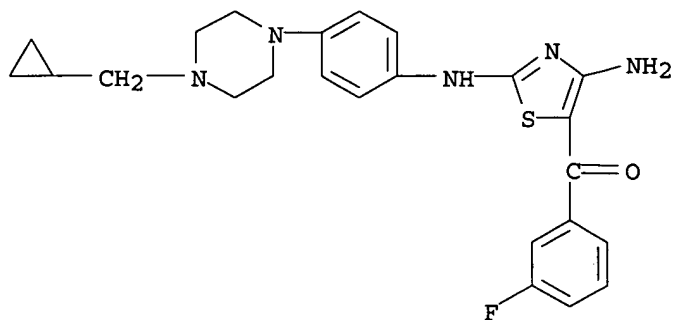
CN Methanone, [4-amino-2-[[4-[4-(1-methylpropyl)-1-piperazinyl]phenyl]amino]-5-thiazolyl](3-fluorophenyl)- (9CI) (CA INDEX NAME)



RN 443914-13-4 CAPLUS

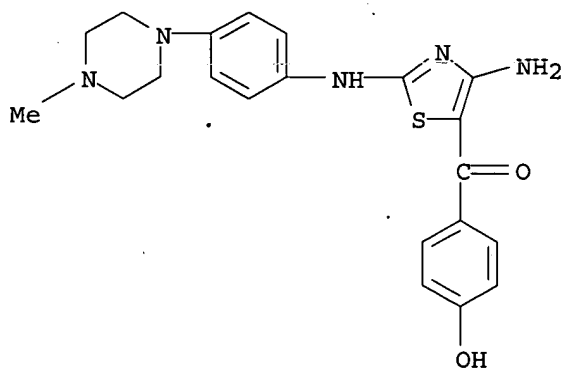
CN Methanone, [4-amino-2-[[4-[4-(cyclopropylmethyl)-1-piperazinyl]phenyl]amino]-5-thiazolyl](3-fluorophenyl)- (9CI) (CA INDEX NAME)

10/042619



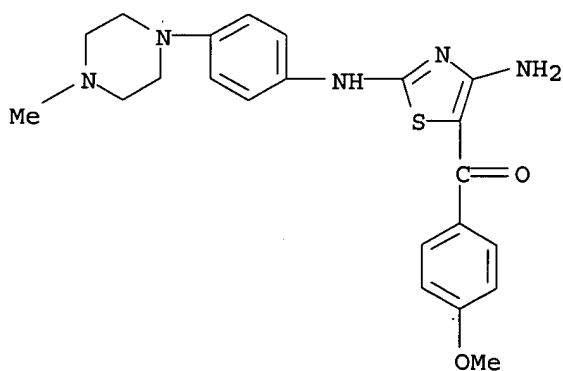
RN 443914-14-5 CAPLUS

CN Methanone, [4-amino-2-[[4-(4-methyl-1-piperazinyl)phenyl]amino]-5-thiazolyl](4-hydroxyphenyl)- (9CI) (CA INDEX NAME)



RN 443914-15-6 CAPLUS

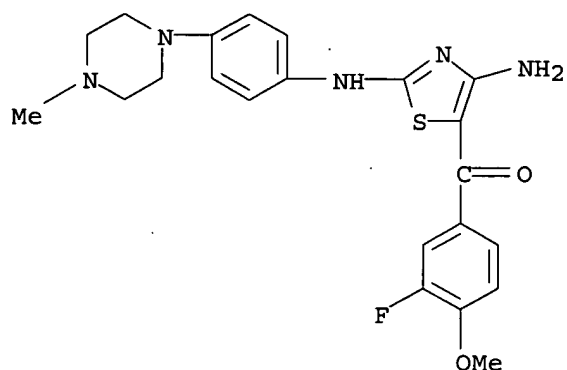
CN Methanone, [4-amino-2-[[4-(4-methyl-1-piperazinyl)phenyl]amino]-5-thiazolyl](4-methoxyphenyl)- (9CI) (CA INDEX NAME)



RN 443914-16-7 CAPLUS

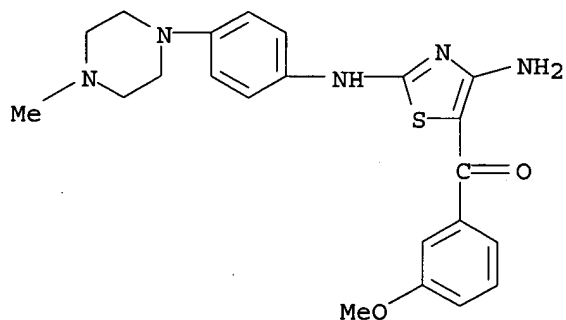
CN Methanone, [4-amino-2-[[4-(4-methyl-1-piperazinyl)phenyl]amino]-5-thiazolyl](3-fluoro-4-methoxyphenyl)- (9CI) (CA INDEX NAME)

10/042619



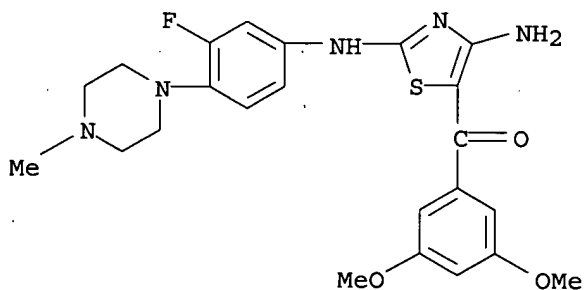
RN 443914-17-8 CAPLUS

CN Methanone, [4-amino-2-[[4-(4-methyl-1-piperazinyl)phenyl]amino]-5-thiazolyl](3-methoxyphenyl)- (9CI) (CA INDEX NAME)



RN 443914-18-9 CAPLUS

CN Methanone, [4-amino-2-[[3-fluoro-4-(4-methyl-1-piperazinyl)phenyl]amino]-5-thiazolyl](3,5-dimethoxyphenyl)- (9CI) (CA INDEX NAME)

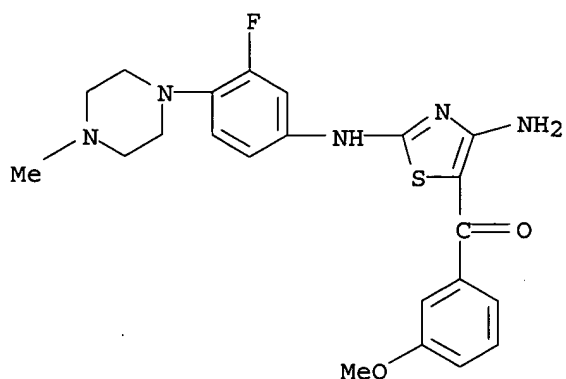


RN 443914-19-0 CAPLUS

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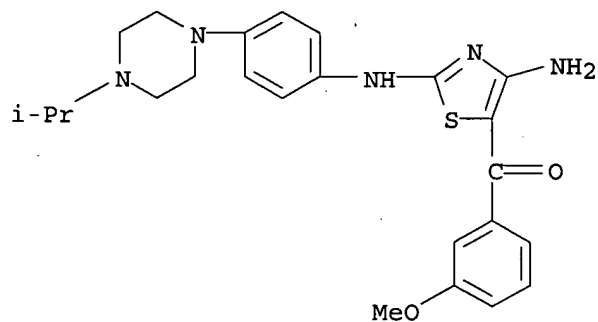


10/042619



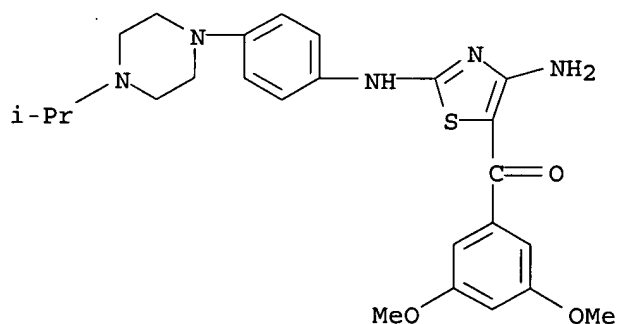
RN 443914-20-3 CAPLUS

CN Methanone, [4-amino-2-[[4-[4-(1-methylethyl)-1-piperazinyl]phenyl]amino]-5-thiazolyl](3-methoxyphenyl)- (9CI) (CA INDEX NAME)



RN 443914-21-4 CAPLUS

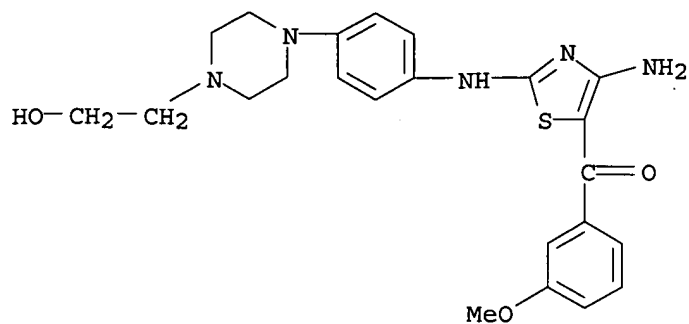
CN Methanone, [4-amino-2-[[4-[4-(1-methylethyl)-1-piperazinyl]phenyl]amino]-5-thiazolyl](3,5-dimethoxyphenyl)- (9CI) (CA INDEX NAME)



RN 443914-22-5 CAPLUS

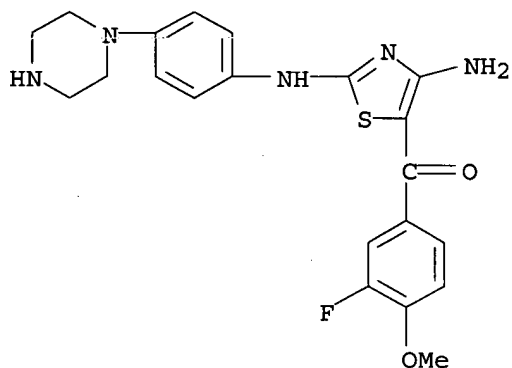
CN Methanone, [4-amino-2-[[4-[4-(2-hydroxyethyl)-1-piperazinyl]phenyl]amino]-5-thiazolyl](3-methoxyphenyl)- (9CI) (CA INDEX NAME)

10/042619



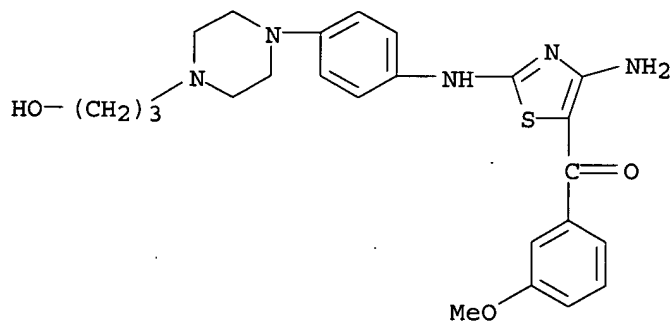
RN 443914-23-6 CAPLUS

CN Methanone, [4-amino-2-[[4-(1-piperazinyl)phenyl]amino]-5-thiazolyl](3-fluoro-4-methoxyphenyl)- (9CI) (CA INDEX NAME)



RN 443914-24-7 CAPLUS

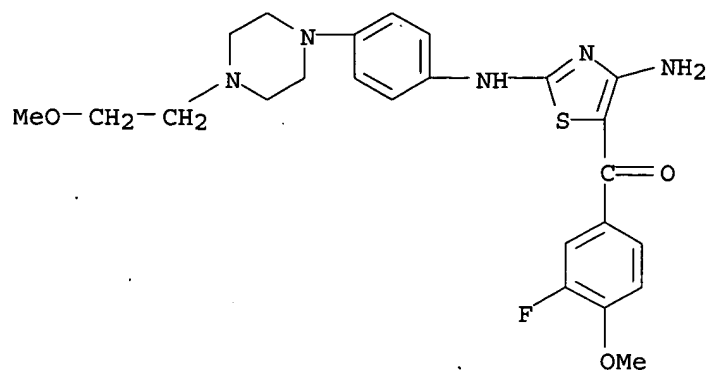
CN Methanone, [4-amino-2-[[4-[4-(3-hydroxypropyl)-1-piperazinyl]phenyl]amino]-5-thiazolyl](3-methoxyphenyl)- (9CI) (CA INDEX NAME)



RN 443914-25-8 CAPLUS

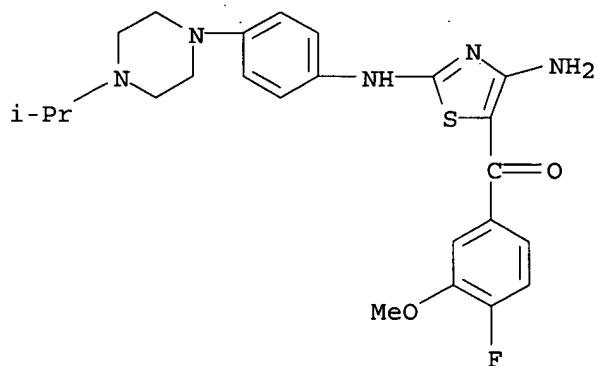
CN Methanone, [4-amino-2-[[4-[4-(2-methoxyethyl)-1-piperazinyl]phenyl]amino]-5-thiazolyl](3-fluoro-4-methoxyphenyl)- (9CI) (CA INDEX NAME)

10/042619



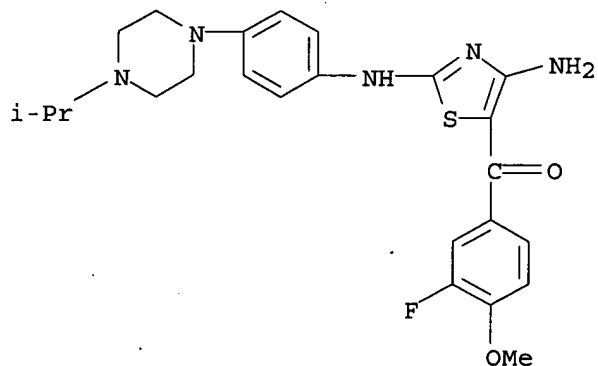
RN 443914-26-9 CAPLUS

CN Methanone, [4-amino-2-[[4-[[4-(1-methylethyl)-1-piperazinyl]phenyl]amino]-5-thiazolyl](4-fluoro-3-methoxyphenyl)- (9CI) (CA INDEX NAME)



RN 443914-27-0 CAPLUS

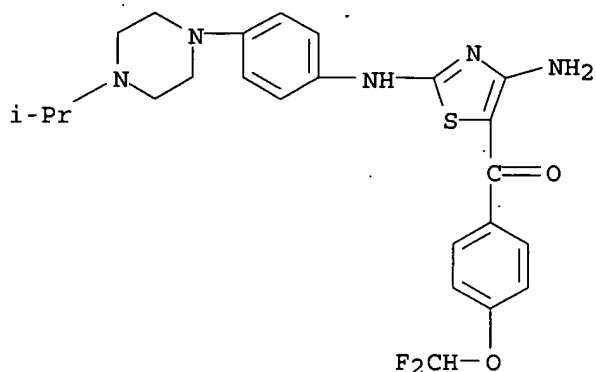
CN Methanone, [4-amino-2-[[4-[[4-(1-methylethyl)-1-piperazinyl]phenyl]amino]-5-thiazolyl](3-fluoro-4-methoxyphenyl)- (9CI) (CA INDEX NAME)



RN 443914-28-1 CAPLUS

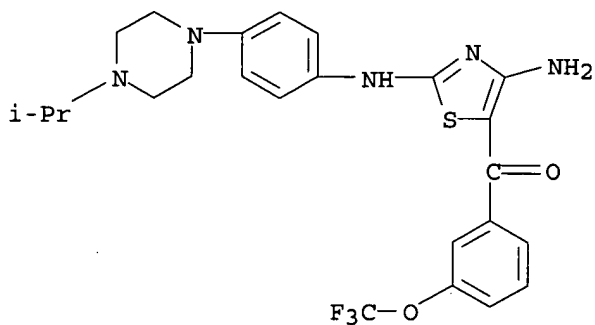
CN Methanone, [4-amino-2-[[4-[[4-(1-methylethyl)-1-piperazinyl]phenyl]amino]-5-thiazolyl](4-(difluoromethoxy)phenyl)- (9CI) (CA INDEX NAME)

10/042619



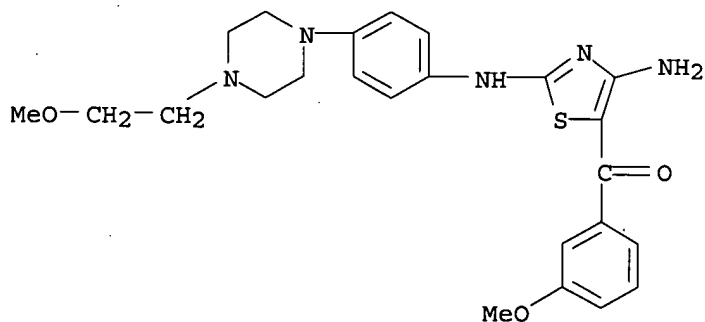
RN 443914-29-2 CAPLUS

CN Methanone, [4-amino-2-[[4-[4-(1-methylethyl)-1-piperazinyl]phenyl]amino]-5-thiazolyl][3-(trifluoromethoxy)phenyl]- (9CI) (CA INDEX NAME)



RN 443914-30-5 CAPLUS

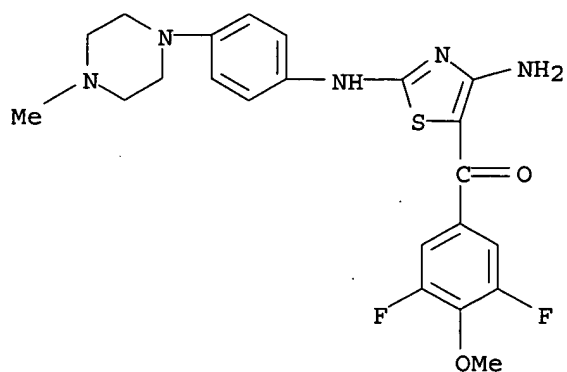
CN Methanone, [4-amino-2-[[4-[4-(2-methoxyethyl)-1-piperazinyl]phenyl]amino]-5-thiazolyl][3-methoxyphenyl]- (9CI) (CA INDEX NAME)



RN 443914-31-6 CAPLUS

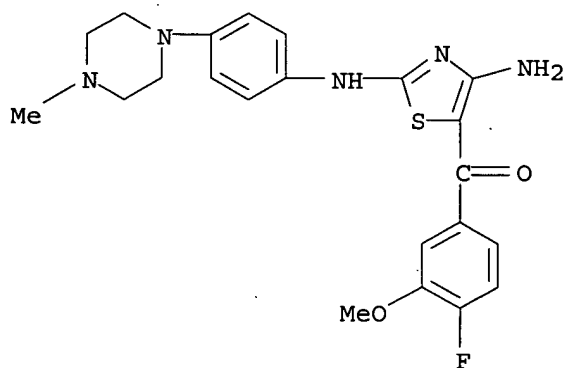
CN Methanone, [4-amino-2-[[4-(4-methyl-1-piperazinyl)phenyl]amino]-5-thiazolyl][3,5-difluoro-4-methoxyphenyl]- (9CI) (CA INDEX NAME)

10/042619



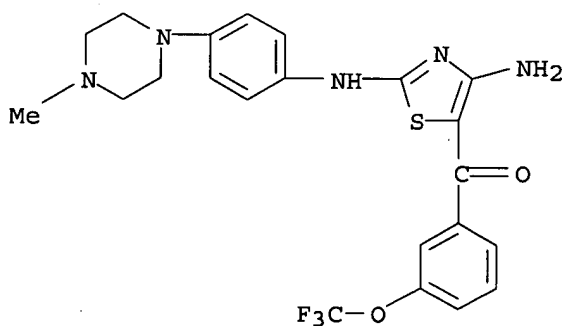
RN 443914-32-7 CAPLUS

CN Methanone, [4-amino-2-[[4-(4-methyl-1-piperazinyl)phenyl]amino]-5-thiazolyl](4-fluoro-3-methoxyphenyl)- (9CI) (CA INDEX NAME)



RN 443914-33-8 CAPLUS

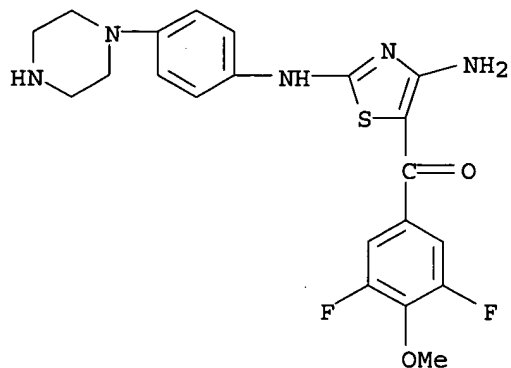
CN Methanone, [4-amino-2-[[4-(4-methyl-1-piperazinyl)phenyl]amino]-5-thiazolyl](3-(trifluoromethoxy)phenyl)- (9CI) (CA INDEX NAME)



RN 443914-34-9 CAPLUS

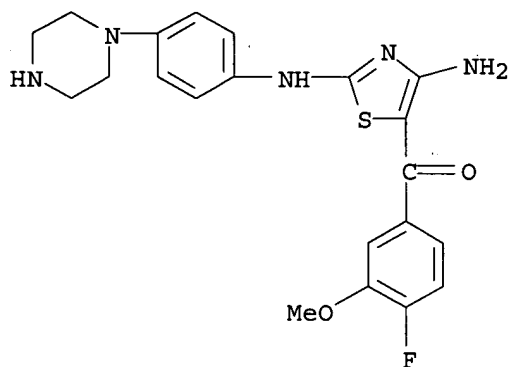
CN Methanone, [4-amino-2-[[4-(1-piperazinyl)phenyl]amino]-5-thiazolyl](3,5-difluoro-4-methoxyphenyl)- (9CI) (CA INDEX NAME)

10/042619



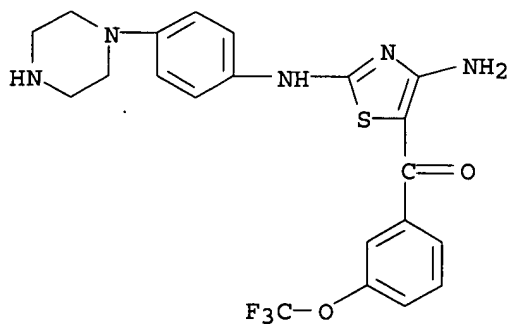
RN 443914-35-0 CAPLUS

CN Methanone, [4-amino-2-[[4-(1-piperazinyl)phenyl]amino]-5-thiazolyl](4-fluoro-3-methoxyphenyl)- (9CI) (CA INDEX NAME)



RN 443914-36-1 CAPLUS

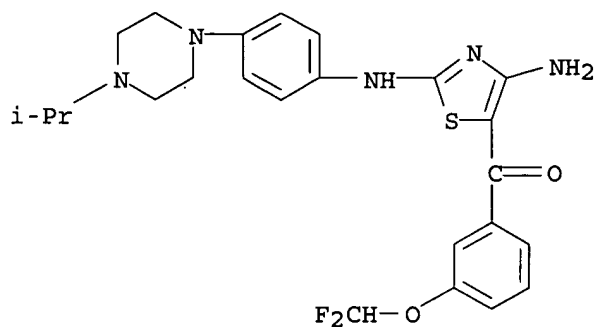
CN Methanone, [4-amino-2-[[4-(1-piperazinyl)phenyl]amino]-5-thiazolyl](3-(trifluoromethoxy)phenyl)- (9CI) (CA INDEX NAME)



RN 443914-37-2 CAPLUS

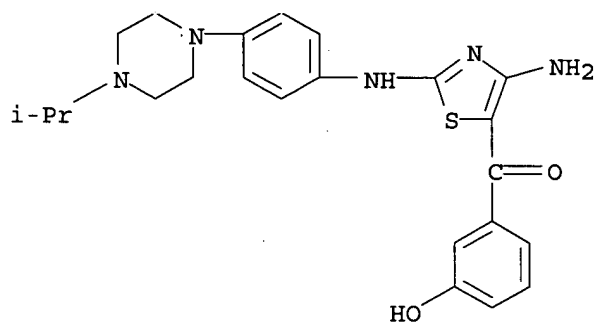
CN Methanone, [4-amino-2-[[4-[4-(1-methylethyl)-1-piperazinyl]phenyl]amino]-5-thiazolyl](3-(difluoromethoxy)phenyl)- (9CI) (CA INDEX NAME)

10/042619



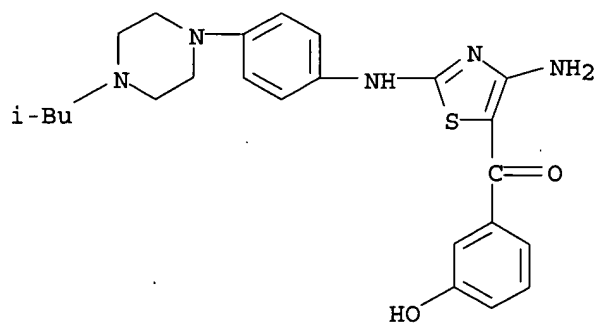
RN 443914-38-3 CAPLUS

CN Methanone, [4-amino-2-[[4-[4-(1-methylethyl)-1-piperazinyl]phenyl]amino]-5-thiazolyl](3-hydroxyphenyl)- (9CI) (CA INDEX NAME)



RN 443914-39-4 CAPLUS

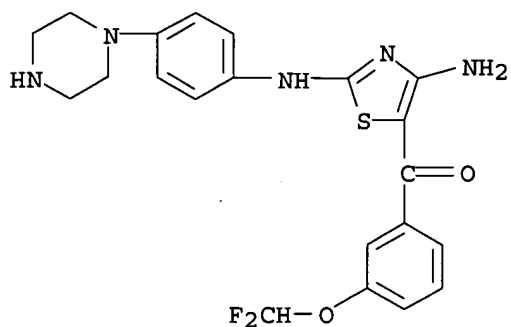
CN Methanone, [4-amino-2-[[4-[4-(2-methylpropyl)-1-piperazinyl]phenyl]amino]-5-thiazolyl](3-hydroxyphenyl)- (9CI) (CA INDEX NAME)



RN 443914-40-7 CAPLUS

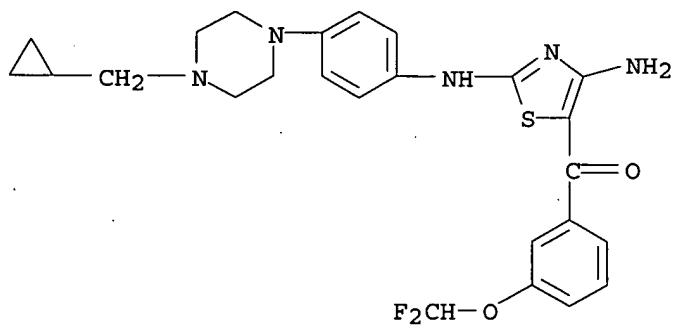
CN Methanone, [4-amino-2-[[4-(1-piperazinyl)phenyl]amino]-5-thiazolyl](3-(difluoromethoxy)phenyl)- (9CI) (CA INDEX NAME)

10/042619



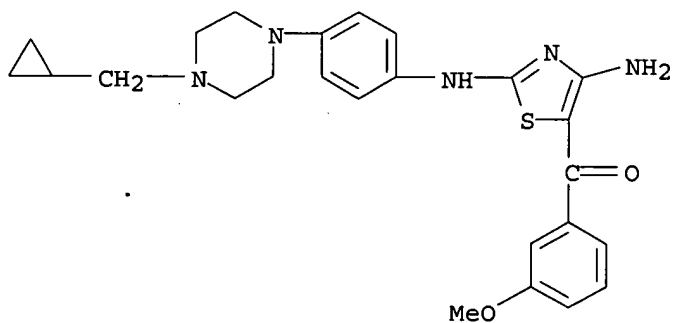
RN 443914-41-8 CAPLUS

CN Methanone, [4-amino-2-[[4-[4-(cyclopropylmethyl)-1-piperazinyl]phenyl]amino]-5-thiazolyl][3-(difluoromethoxy)phenyl] - (9CI)  
(CA INDEX NAME)



RN 443914-42-9 CAPLUS

CN Methanone, [4-amino-2-[[4-[4-(cyclopropylmethyl)-1-piperazinyl]phenyl]amino]-5-thiazolyl][3-methoxyphenyl] - (9CI) (CA INDEX NAME)

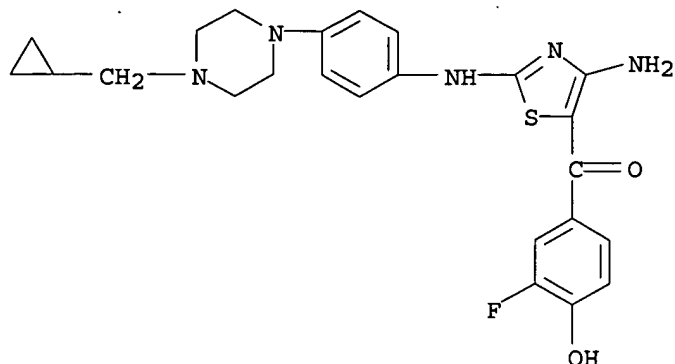


RN 443914-43-0 CAPLUS

CN Methanone, [4-amino-2-[[4-[4-(cyclopropylmethyl)-1-piperazinyl]phenyl]amino]-5-thiazolyl][3-fluoro-4-hydroxyphenyl] - (9CI)  
(CA INDEX NAME)

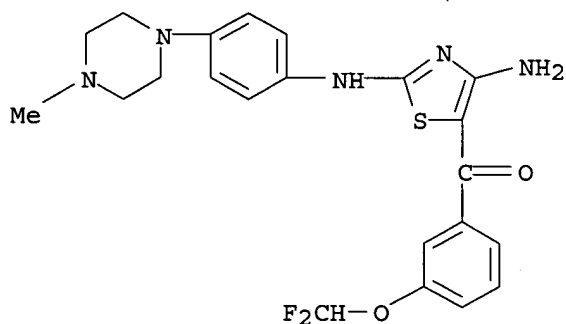


10/042619



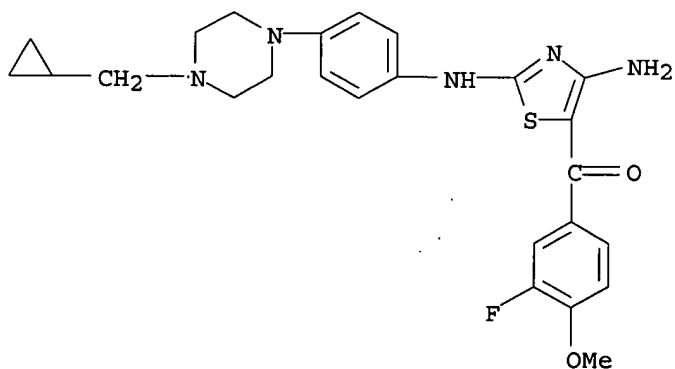
RN 443914-44-1 CAPLUS

CN Methanone, [4-amino-2-[[4-(4-methyl-1-piperazinyl)phenyl]amino]-5-thiazolyl][3-(difluoromethoxy)phenyl] - (9CI) (CA INDEX NAME)



RN 443914-45-2 CAPLUS

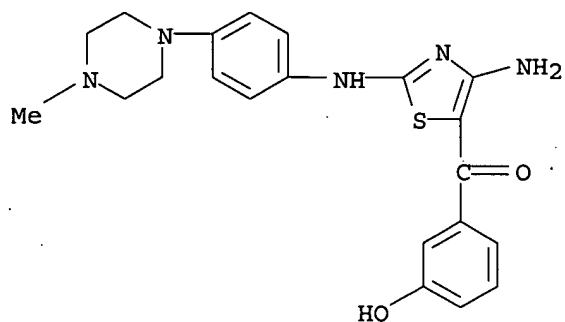
CN Methanone, [4-amino-2-[[4-[4-(cyclopropylmethyl)-1-piperazinyl]phenyl]amino]-5-thiazolyl](3-fluoro-4-methoxyphenyl) - (9CI) (CA INDEX NAME)



RN 443914-46-3 CAPLUS

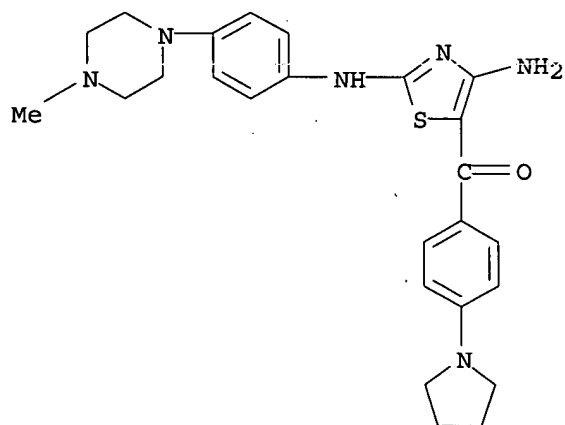
CN Methanone, [4-amino-2-[[4-(4-methyl-1-piperazinyl)phenyl]amino]-5-thiazolyl](3-hydroxyphenyl) - (9CI) (CA INDEX NAME)

10/042619



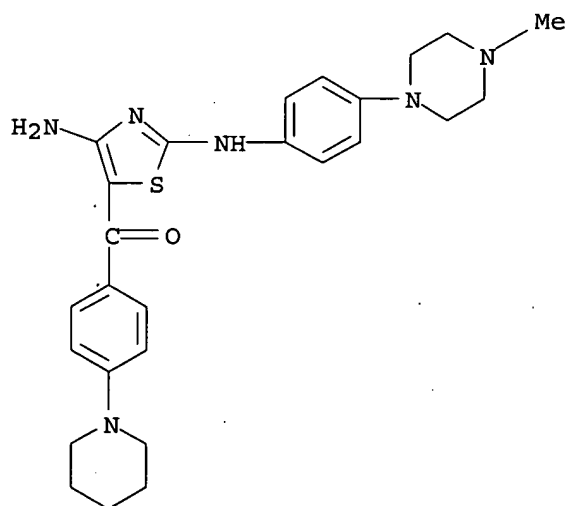
RN 443914-47-4 CAPLUS

CN Methanone, [4-amino-2-[[4-(4-methyl-1-piperazinyl)phenyl]amino]-5-thiazolyl][4-(1-pyrrolidyl)phenyl]- (9CI) (CA INDEX NAME)



RN 443914-48-5 CAPLUS

CN Methanone, [4-amino-2-[[4-(4-methyl-1-piperazinyl)phenyl]amino]-5-thiazolyl][4-(1-piperidyl)phenyl]- (9CI) (CA INDEX NAME)



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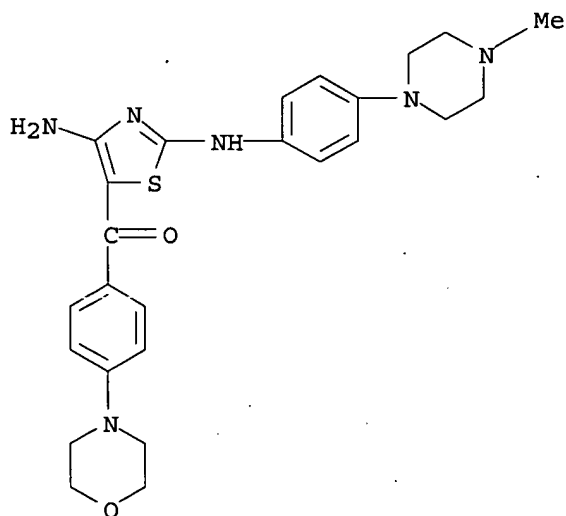
RN 443914-50-9 CAPLUS

CN Methanone, [4-amino-2-[[4-(4-methyl-1-piperazinyl)phenyl]amino]-5-thiazolyl][4-(4-morpholinyl)phenyl]-, monoacetate (9CI) (CA INDEX NAME)

CM 1

CRN 443914-49-6

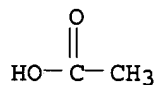
CMF C25 H30 N6 O2 S



CM 2

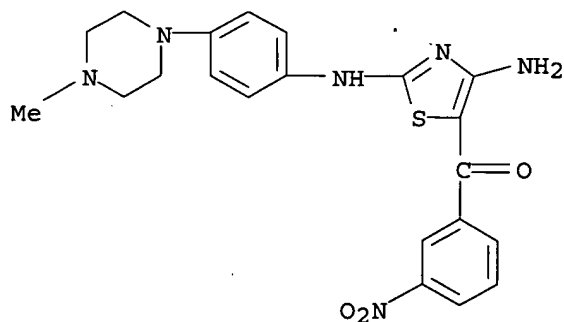
CRN 64-19-7

CMF C2 H4 O2



RN 443914-51-0 CAPLUS

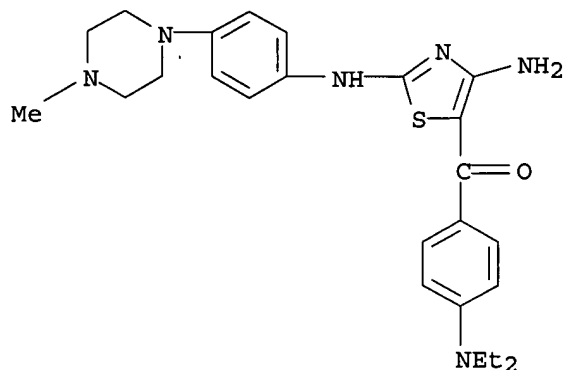
CN Methanone, [4-amino-2-[[4-(4-methyl-1-piperazinyl)phenyl]amino]-5-thiazolyl](3-nitrophenyl)- (9CI) (CA INDEX NAME)



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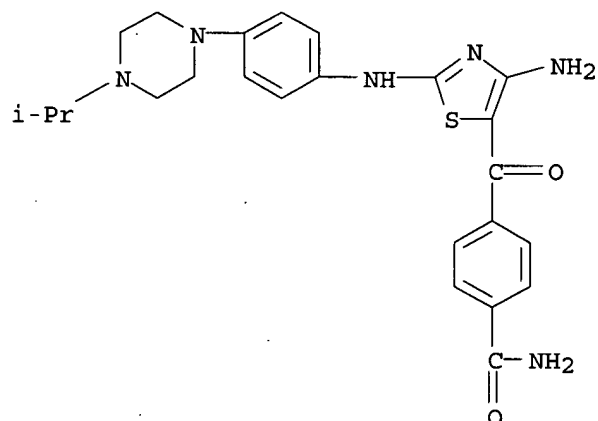
RN 443914-52-1 CAPLUS

CN Methanone, [4-amino-2-[[4-(4-methyl-1-piperazinyl)phenyl]amino]-5-thiazolyl][4-(diethylamino)phenyl]- (9CI) (CA INDEX NAME)



RN 443914-53-2 CAPLUS

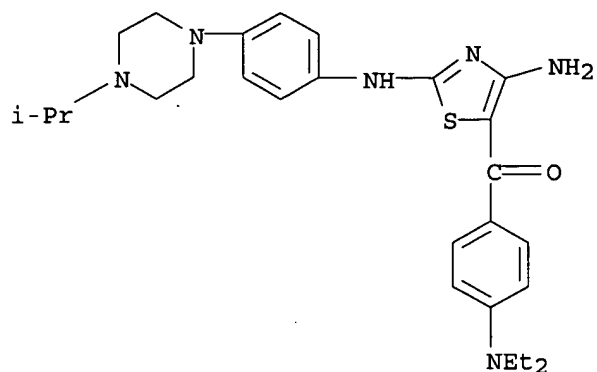
CN Benzamide, 4-[[4-amino-2-[[4-[4-(1-methylethyl)-1-piperazinyl]phenyl]amino]-5-thiazolyl]carbonyl]- (9CI) (CA INDEX NAME)



RN 443914-54-3 CAPLUS

CN Methanone, [4-amino-2-[[4-[4-(1-methylethyl)-1-piperazinyl]phenyl]amino]-5-thiazolyl][4-(diethylamino)phenyl]- (9CI) (CA INDEX NAME)

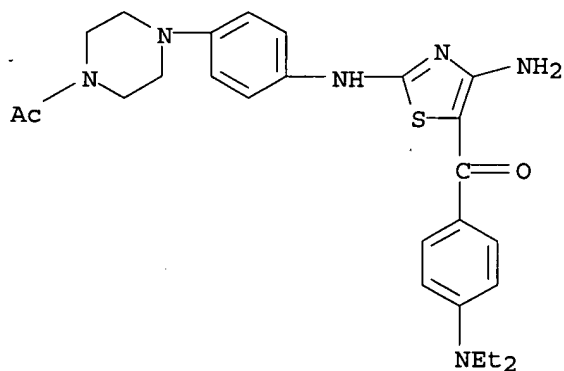
10/042619



RN 443914-56-5 CAPLUS  
CN Piperazine, 1-acetyl-4-[4-[[4-amino-5-[4-(diethylamino)benzoyl]-2-thiazolyl]amino]phenyl]-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

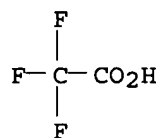
CM 1

CRN 443914-55-4  
CMF C26 H32 N6 O2 S



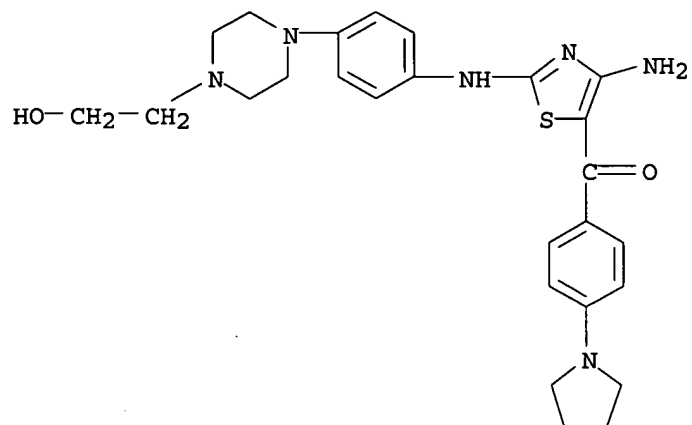
CM 2

CRN 76-05-1  
CMF C2 H F3 O2



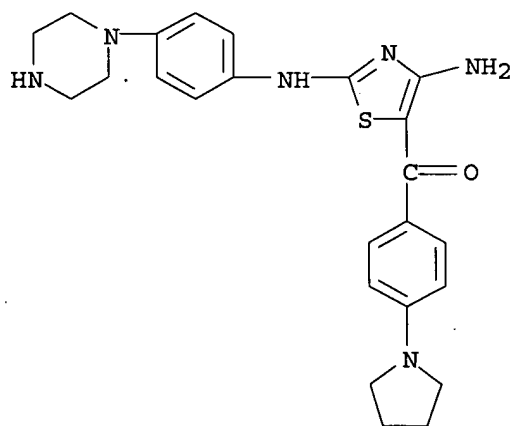
RN 443914-57-6 CAPLUS  
CN Methanone, [4-amino-2-[[4-[4-(2-hydroxyethyl)-1-piperazinyl]phenyl]amino]-5-thiazolyl][4-(1-pyrrolidinyl)phenyl]- (9CI) (CA INDEX NAME)

10/042619



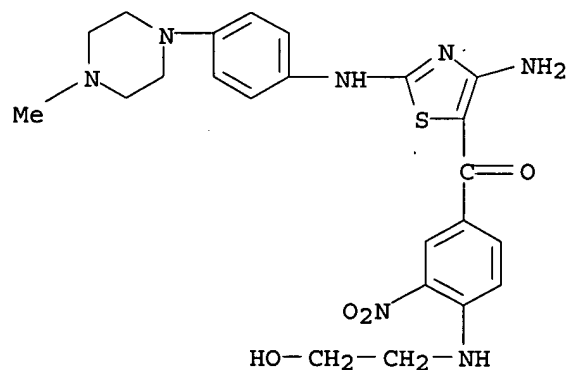
RN 443914-58-7 CAPLUS

CN Methanone, [4-amino-2-[[4-(1-piperazinyl)phenyl]amino]-5-thiazolyl][4-(1-pyrrolidinyl)phenyl]- (9CI) (CA INDEX NAME)



RN 443914-59-8 CAPLUS

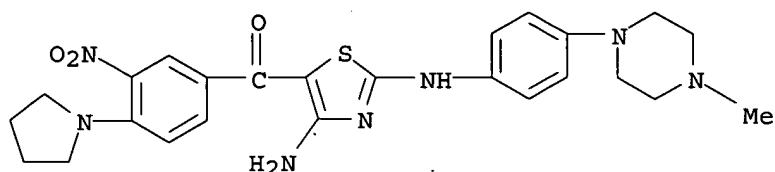
CN Methanone, [4-amino-2-[[4-(4-methyl-1-piperazinyl)phenyl]amino]-5-thiazolyl][4-[(2-hydroxyethyl)amino]-3-nitrophenyl]- (9CI) (CA INDEX NAME)



10/042619

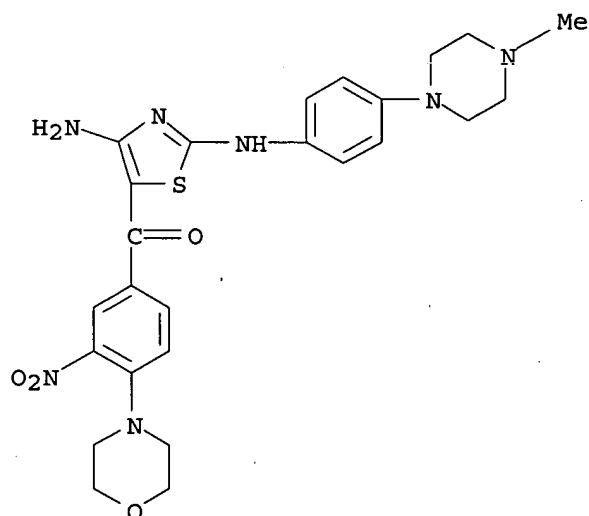
RN 443914-60-1 CAPLUS

CN Methanone, [4-amino-2-[[4-(4-methyl-1-piperazinyl)phenyl]amino]-5-thiazolyl][3-nitro-4-(1-pyrrolidinyl)phenyl]- (9CI) (CA INDEX NAME)



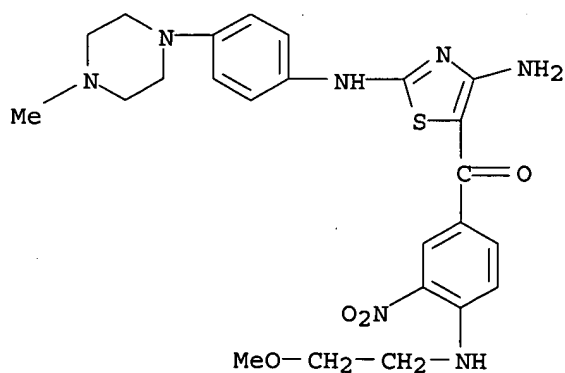
RN 443914-61-2 CAPLUS

CN Methanone, [4-amino-2-[[4-(4-methyl-1-piperazinyl)phenyl]amino]-5-thiazolyl][4-(4-morpholinyl)-3-nitrophenyl]- (9CI) (CA INDEX NAME)



RN 443914-62-3 CAPLUS

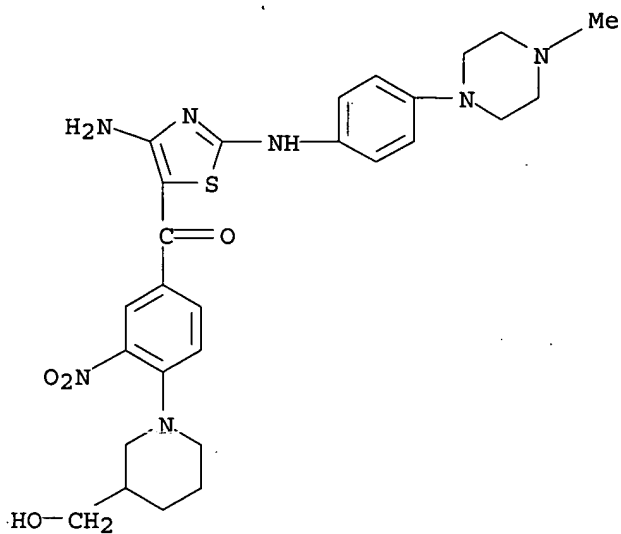
CN Methanone, [4-amino-2-[[4-(4-methyl-1-piperazinyl)phenyl]amino]-5-thiazolyl][4-[(2-methoxyethyl)amino]-3-nitrophenyl]- (9CI) (CA INDEX NAME)



RN 443914-63-4 CAPLUS

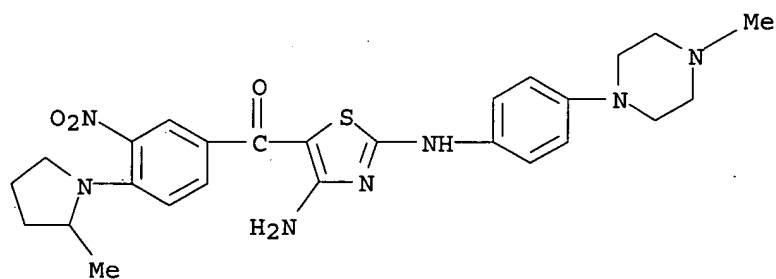
10/042619

CN Methanone, [4-amino-2-[[4-(4-methyl-1-piperazinyl)phenyl]amino]-5-thiazolyl] [4-[3-(hydroxymethyl)-1-piperidinyl]-3-nitrophenyl]- (9CI) (CA INDEX NAME)



RN 443914-64-5 CAPLUS

CN Methanone, [4-amino-2-[[4-(4-methyl-1-piperazinyl)phenyl]amino]-5-thiazolyl] [4-(2-methyl-1-pyrrolidinyl)-3-nitrophenyl]- (9CI) (CA INDEX NAME)



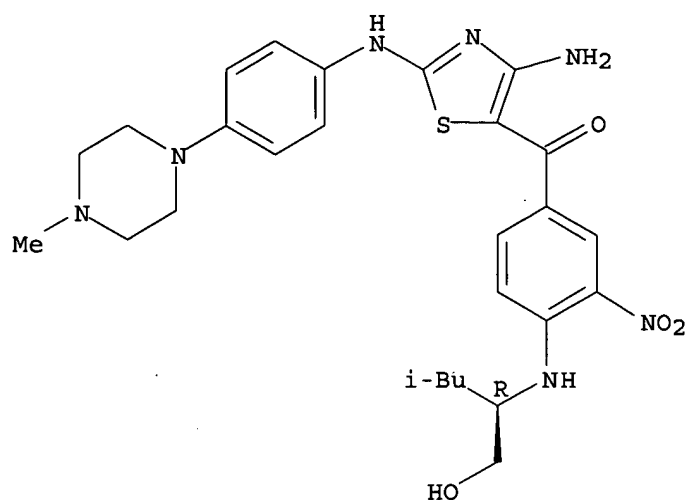
RN 443914-65-6 CAPLUS

CN Methanone, [4-amino-2-[[4-(4-methyl-1-piperazinyl)phenyl]amino]-5-thiazolyl] [4-[[[(1R)-1-(hydroxymethyl)-3-methylbutyl]amino]-3-nitrophenyl]- (9CI) (CA INDEX NAME)

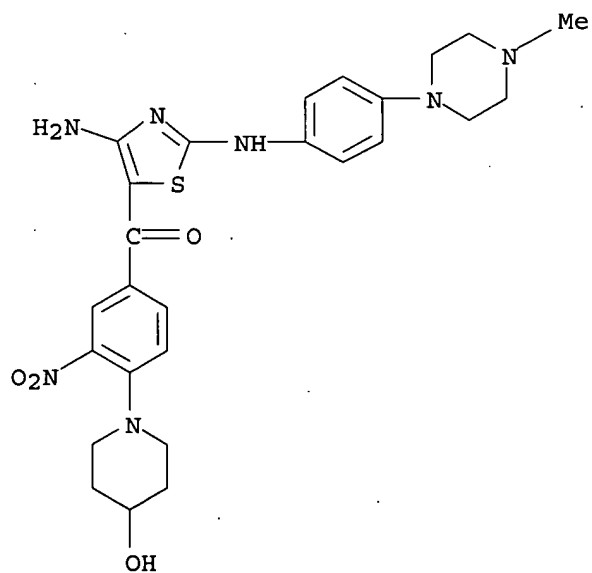
Absolute stereochemistry.



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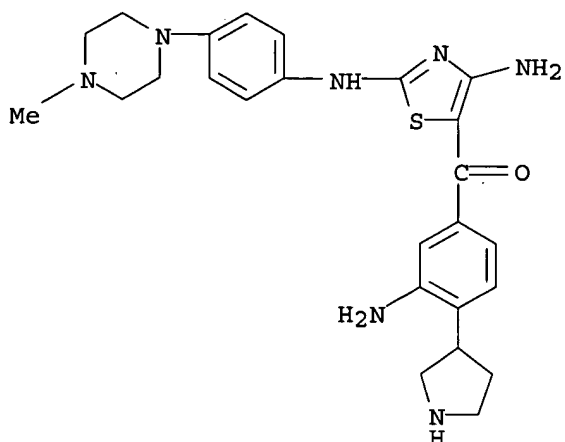


RN 443914-67-8 CAPLUS  
CN Methanone, [4-amino-2-[[4-(4-methyl-1-piperazinyl)phenyl]amino]-5-thiazolyl][4-(4-hydroxy-1-piperidinyl)-3-nitrophenyl]- (9CI) (CA INDEX NAME)



RN 443914-69-0 CAPLUS  
CN Methanone, [4-amino-2-[[4-(4-methyl-1-piperazinyl)phenyl]amino]-5-thiazolyl][3-amino-4-(3-pyrrolidinyl)phenyl]- (9CI) (CA INDEX NAME)

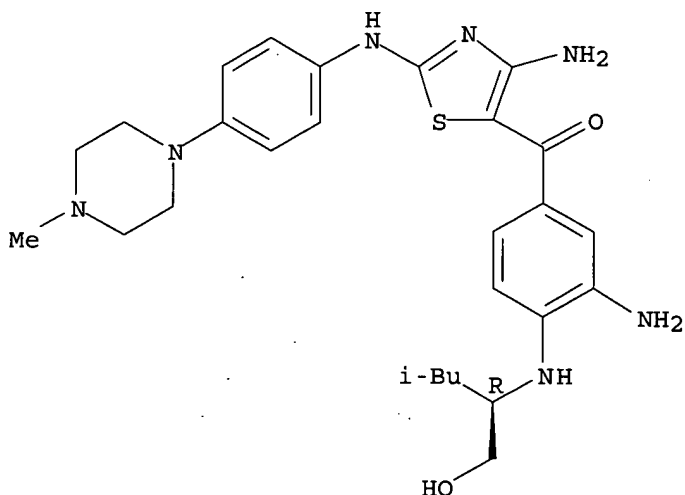
10/042619



RN 443914-70-3 CAPLUS

CN Methanone, [3-amino-4-[[{(1R)-1-(hydroxymethyl)-3-methylbutyl]amino]phenyl] [4-amino-2-[[4-(4-methyl-1-piperazinyl)phenyl]amino]-5-thiazolyl]- (9CI) (CA INDEX NAME)

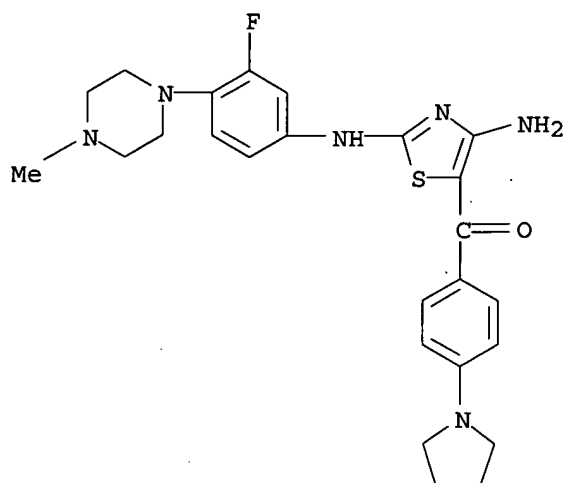
Absolute stereochemistry.



RN 443914-71-4 CAPLUS

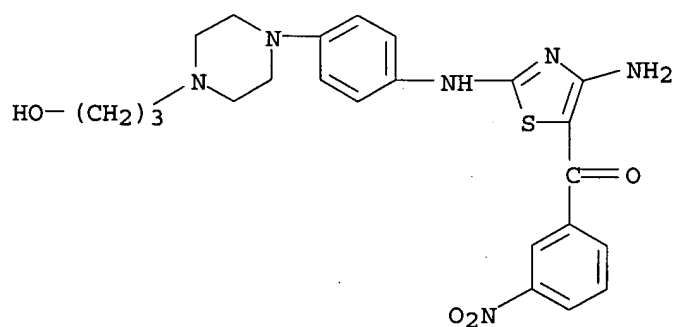
CN Methanone, [4-amino-2-[[[3-fluoro-4-(4-methyl-1-piperazinyl)phenyl]amino]-5-thiazolyl] [4-(1-pyrrolidinyl)phenyl]- (9CI) (CA INDEX NAME)

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RN 443914-72-5 CAPLUS

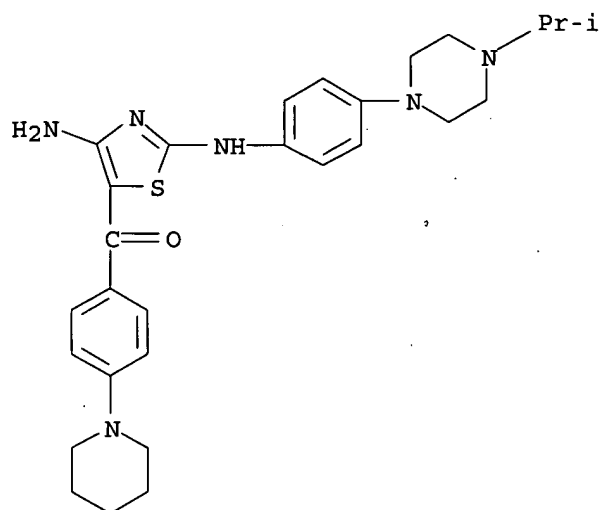
CN Methanone, [4-amino-2-[[4-[4-(3-hydroxypropyl)-1-piperazinyl]phenyl]amino]-5-thiazolyl](3-nitrophenyl)- (9CI) (CA INDEX NAME)



RN 443914-73-6 CAPLUS

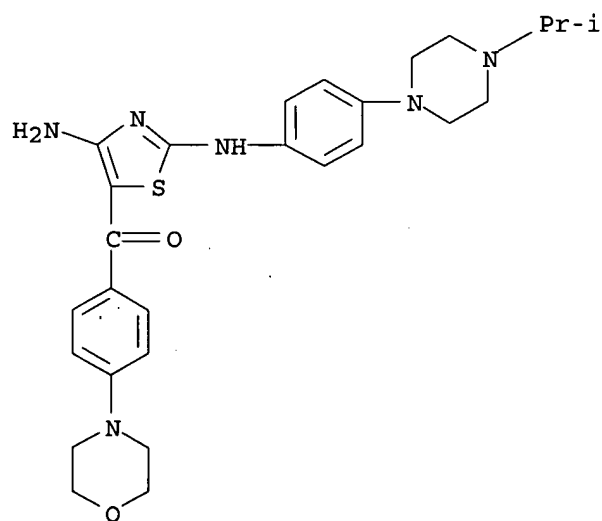
CN Methanone, [4-amino-2-[[4-[4-(1-methylethyl)-1-piperazinyl]phenyl]amino]-5-thiazolyl][4-(1-piperidinyl)phenyl]- (9CI) (CA INDEX NAME)

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RN 443914-74-7 CAPLUS

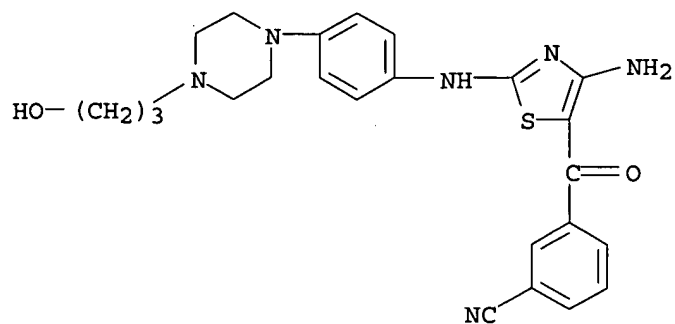
CN Methanone, [4-amino-2-[[4-[[4-(1-methylethyl)-1-piperazinyl]phenyl]amino]-5-thiazolyl] [4-(4-morpholinyl)phenyl]- (9CI) (CA INDEX NAME)



RN 443914-75-8 CAPLUS

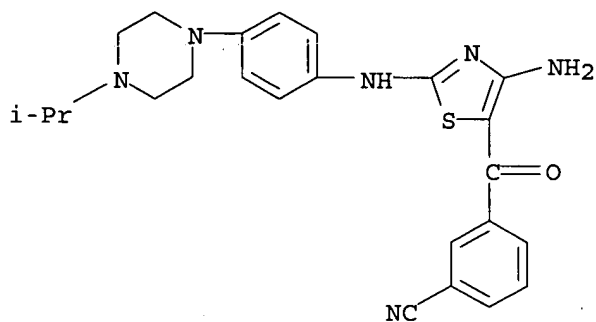
CN Benzonitrile, 3-[[4-amino-2-[[4-[[4-(3-hydroxypropyl)-1-piperazinyl]phenyl]amino]-5-thiazolyl]carbonyl]- (9CI) (CA INDEX NAME)

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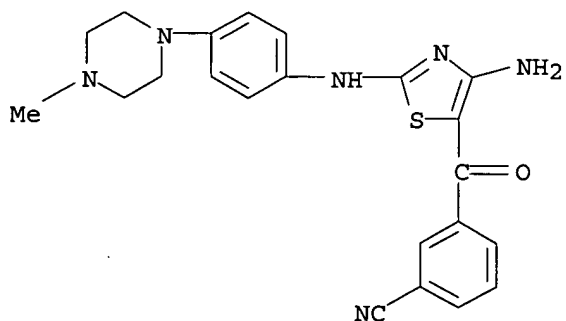
RN 443914-76-9 CAPLUS

CN Benzonitrile, 3-[[4-amino-2-[[4-[4-(1-methylethyl)-1-piperazinyl]phenyl]amino]-5-thiazolyl]carbonyl]- (9CI) (CA INDEX NAME)



RN 443914-78-1 CAPLUS

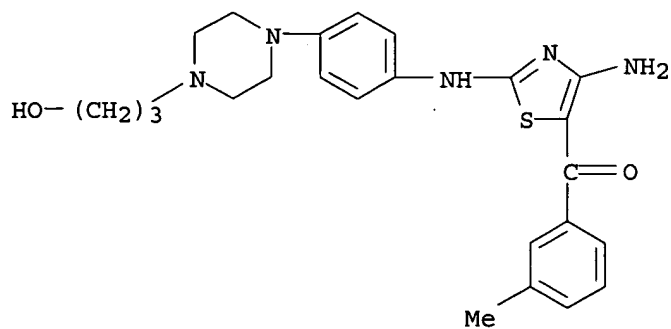
CN Benzonitrile, 3-[[4-amino-2-[[4-[4-(4-methyl-1-piperazinyl)phenyl]amino]-5-thiazolyl]carbonyl]- (9CI) (CA INDEX NAME)



RN 443914-79-2 CAPLUS

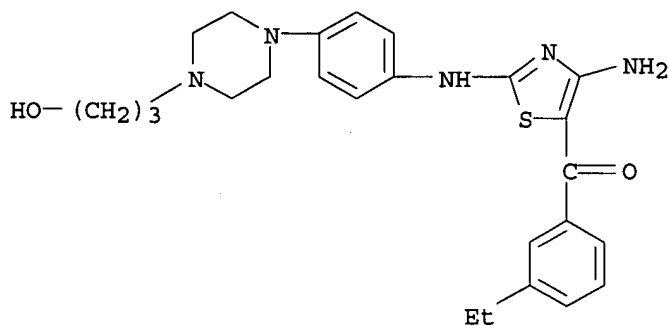
CN Methanone, [4-amino-2-[[4-[4-(3-hydroxypropyl)-1-piperazinyl]phenyl]amino]-5-thiazolyl](3-methylphenyl)- (9CI) (CA INDEX NAME)

10/042619



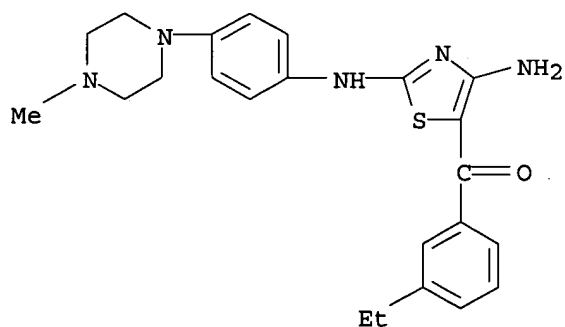
RN 443914-80-5 CAPLUS

CN Methanone, [4-amino-2-[[4-[4-(3-hydroxypropyl)-1-piperazinyl]phenyl]amino]-5-thiazolyl](3-ethylphenyl)- (9CI) (CA INDEX NAME)



RN 443914-81-6 CAPLUS

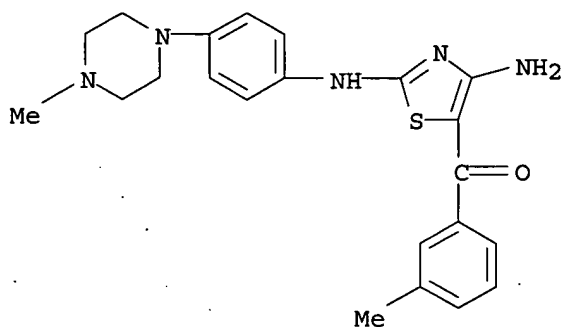
CN Methanone, [4-amino-2-[[4-(4-methyl-1-piperazinyl)phenyl]amino]-5-thiazolyl](3-ethylphenyl)- (9CI) (CA INDEX NAME)



RN 443914-82-7 CAPLUS

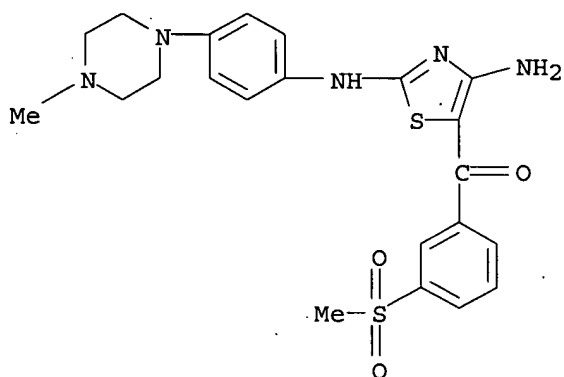
CN Methanone, [4-amino-2-[[4-(4-methyl-1-piperazinyl)phenyl]amino]-5-thiazolyl](3-methylphenyl)- (9CI) (CA INDEX NAME)

10/042619



RN 443914-83-8 CAPLUS

CN Methanone, [4-amino-2-[[4-(4-methyl-1-piperazinyl)phenyl]amino]-5-thiazolyl][3-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



IT 443915-20-6P 443915-22-8P 443915-24-0P

443915-26-2P

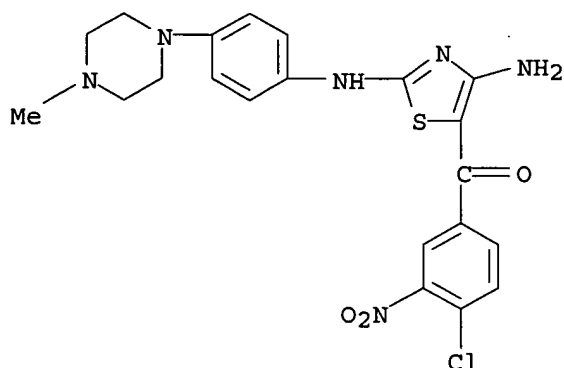
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(claimed compd.; prepn. of 4-amino-5-benzoyl-2-(piperazinylphenylamino)thiazoles as inhibitors of cyclin-dependent kinase 4)

RN 443915-20-6 CAPLUS

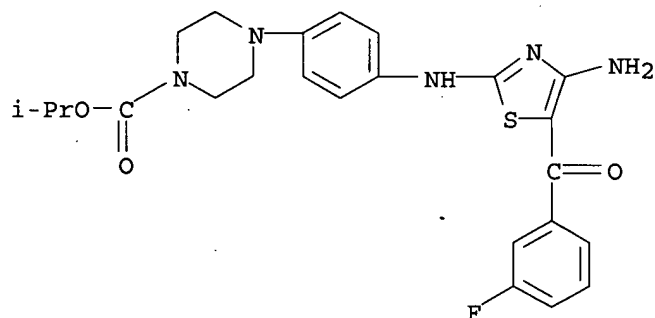
CN Methanone, [4-amino-2-[[4-(4-methyl-1-piperazinyl)phenyl]amino]-5-thiazolyl](4-chloro-3-nitrophenyl)- (9CI) (CA INDEX NAME)

10/042619



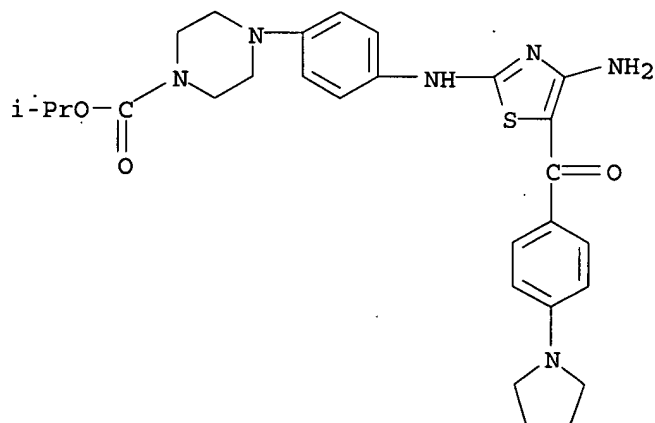
RN 443915-22-8 CAPLUS

CN 1-Piperazinecarboxylic acid, 4-[4-[[4-amino-5-(3-fluorobenzoyl)-2-thiazolyl]amino]phenyl]-, 1-methylethyl ester (9CI) (CA INDEX NAME)



RN 443915-24-0 CAPLUS

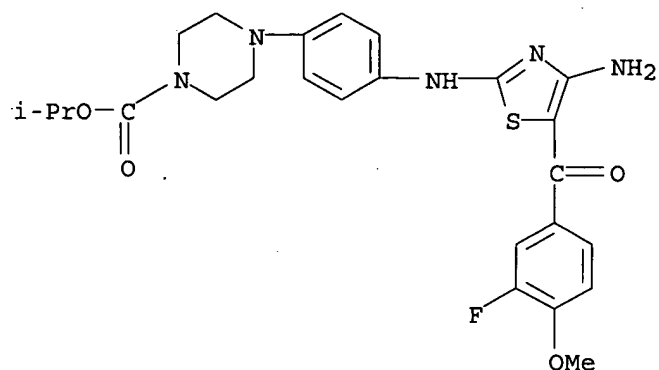
CN 1-Piperazinecarboxylic acid, 4-[4-[[4-amino-5-[4-(1-pyrrolidinyl)benzoyl]-2-thiazolyl]amino]phenyl]-, 1-methylethyl ester (9CI) (CA INDEX NAME)



RN 443915-26-2 CAPLUS

CN 1-Piperazinecarboxylic acid, 4-[4-[[4-amino-5-(3-fluoro-4-methoxybenzoyl)-2-thiazolyl]amino]phenyl]-, 1-methylethyl ester (9CI) (CA INDEX NAME)





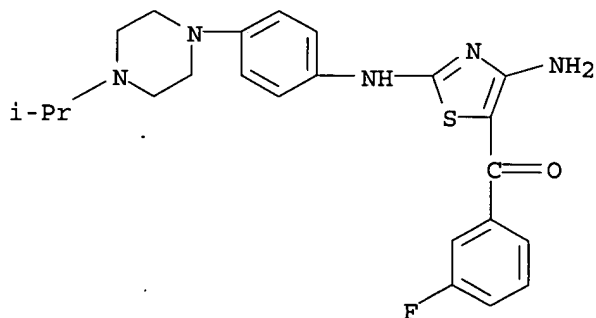
IT 443915-59-1P 443915-60-4P 443915-61-5P  
 443915-62-6P 443915-63-7P 443915-64-8P  
 443915-65-9P 443915-66-0P 443915-67-1P  
 443915-68-2P 443915-69-3P 443915-70-6P  
 443915-71-7P 443915-74-0P 443915-75-1P  
 443915-76-2P 443915-77-3P 443915-78-4P  
 443915-79-5P 443915-80-8P 443915-81-9P  
 443915-82-0P 443915-83-1P 443915-84-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of 4-amino-5-benzoyl-2-(piperazinylphenylamino)thiazoles as inhibitors of cyclin-dependent kinase 4)

RN 443915-59-1 CAPLUS

CN Methanone, [4-amino-2-[[4-[4-(1-methylethyl)-1-piperazinyl]phenyl]amino]-5-thiazolyl](3-fluorophenyl)-, monohydrobromide (9CI) (CA INDEX NAME)

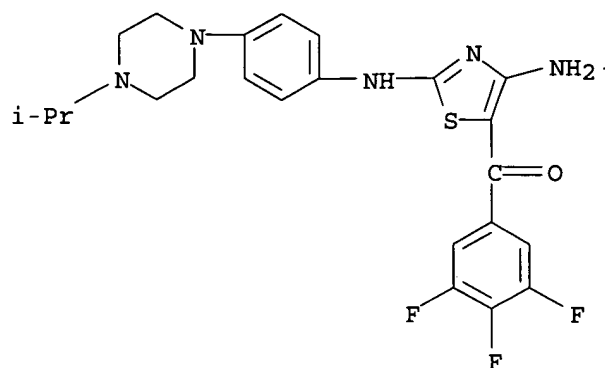


● HBr

RN 443915-60-4 CAPLUS

CN Methanone, [4-amino-2-[[4-[4-(1-methylethyl)-1-piperazinyl]phenyl]amino]-5-thiazolyl](3,4,5-trifluorophenyl)-, monohydrobromide (9CI) (CA INDEX NAME)

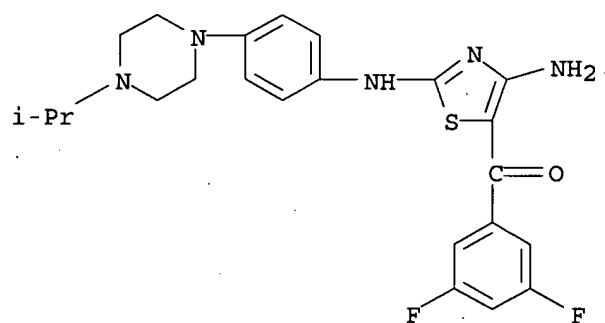
10/042619



● HBr

RN 443915-61-5 CAPLUS

CN Methanone, [4-amino-2-[[4-[4-(1-methylethyl)-1-piperazinyl]phenyl]amino]-5-thiazolyl] (3,5-difluorophenyl)-, monohydrobromide (9CI) (CA INDEX NAME)

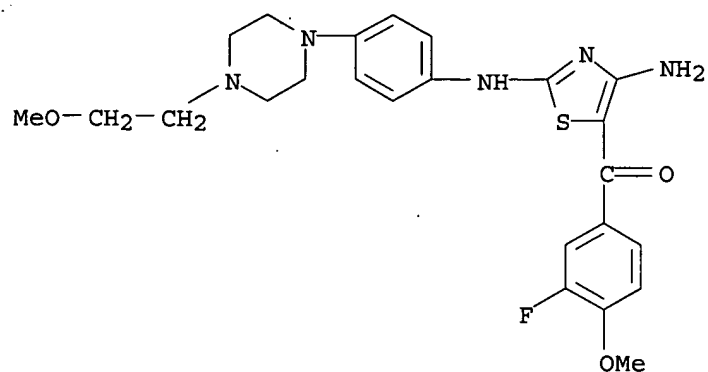


● HBr

RN 443915-62-6 CAPLUS

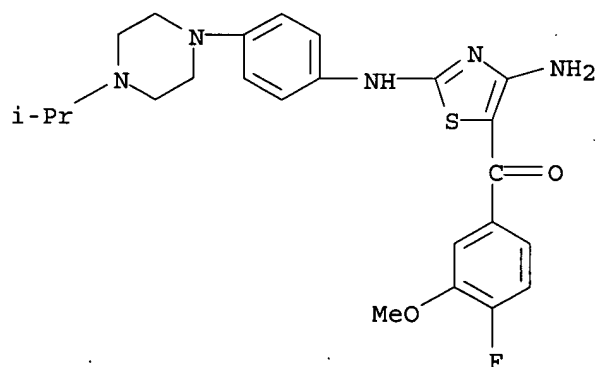
CN Methanone, [4-amino-2-[[4-[4-(2-methoxyethyl)-1-piperazinyl]phenyl]amino]-5-thiazolyl] (3-fluoro-4-methoxyphenyl)-, monohydrobromide (9CI) (CA INDEX NAME)

10/042619



● HBr

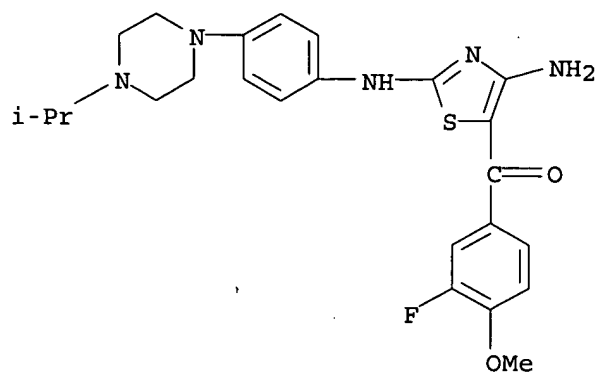
RN 443915-63-7 CAPLUS  
CN Methanone, [4-amino-2-[[4-[[4-(1-methylethyl)-1-piperazinyl]phenyl]amino]-5-thiazolyl](4-fluoro-3-methoxyphenyl)-, monohydrobromide (9CI) (CA INDEX NAME)



● HBr

RN 443915-64-8 CAPLUS  
CN Methanone, [4-amino-2-[[4-[[4-(1-methylethyl)-1-piperazinyl]phenyl]amino]-5-thiazolyl](3-fluoro-4-methoxyphenyl)-, monohydrobromide (9CI) (CA INDEX NAME)

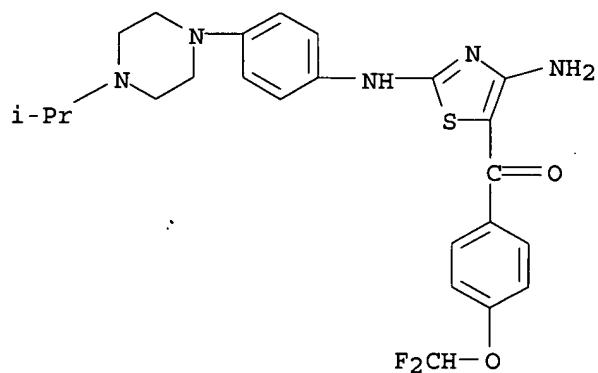
10/042619



● HBr

RN 443915-65-9 CAPLUS

CN Methanone, [4-amino-2-[[4-[4-(1-methylethyl)-1-piperazinyl]phenyl]amino]-5-thiazolyl][4-(difluoromethoxy)phenyl]-, monohydrobromide (9CI) (CA INDEX NAME)

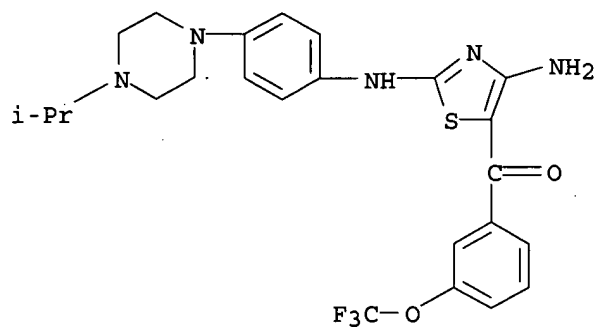


● HBr

RN 443915-66-0 CAPLUS

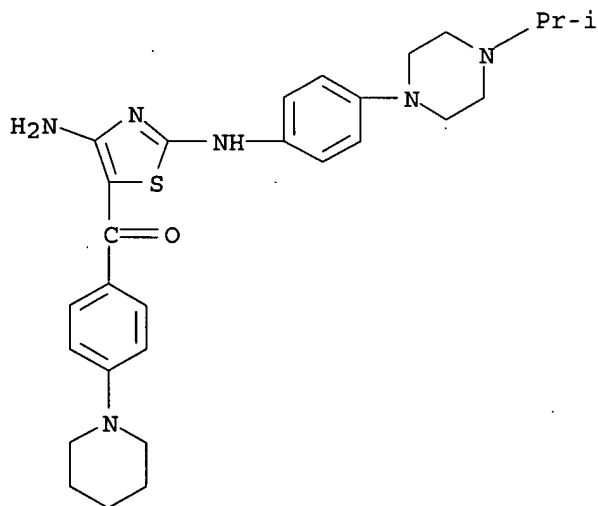
CN Methanone, [4-amino-2-[[4-[4-(1-methylethyl)-1-piperazinyl]phenyl]amino]-5-thiazolyl][3-(trifluoromethoxy)phenyl]-, monohydrobromide (9CI) (CA INDEX NAME)

10/042619



● HBr

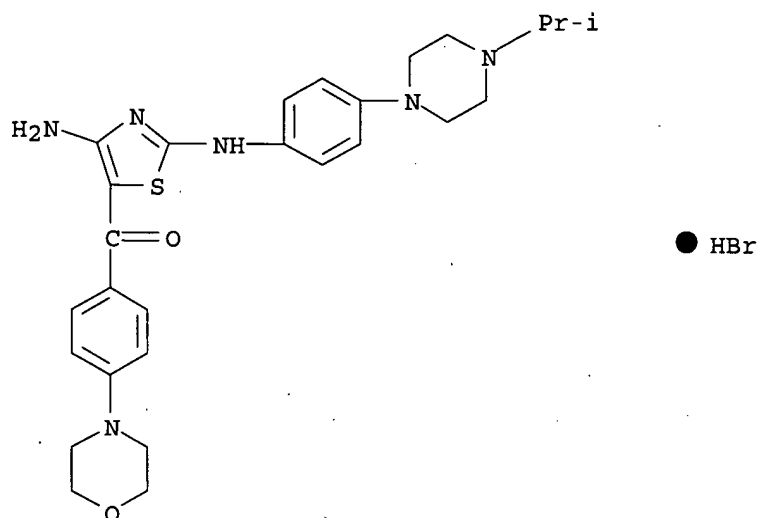
RN 443915-67-1 CAPLUS  
CN Methanone, [4-amino-2-[[4-[4-(1-methylethyl)-1-piperazinyl]phenyl]amino]-5-thiazolyl][4-(1-piperidinyl)phenyl]-, monohydrobromide (9CI) (CA INDEX NAME)



● HBr

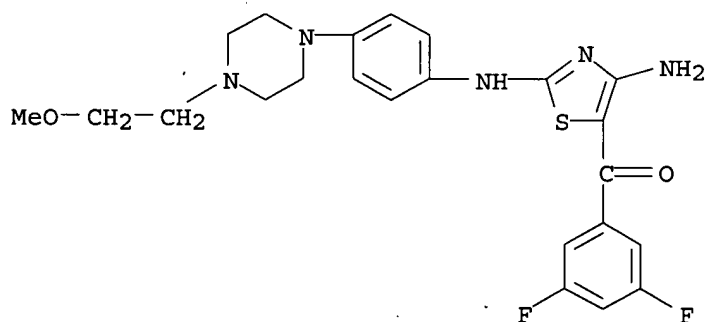
RN 443915-68-2 CAPLUS  
CN Methanone, [4-amino-2-[[4-[4-(1-methylethyl)-1-piperazinyl]phenyl]amino]-5-thiazolyl][4-(4-morpholinyl)phenyl]-, monohydrobromide (9CI) (CA INDEX NAME)

10/042619



RN 443915-69-3 CAPLUS

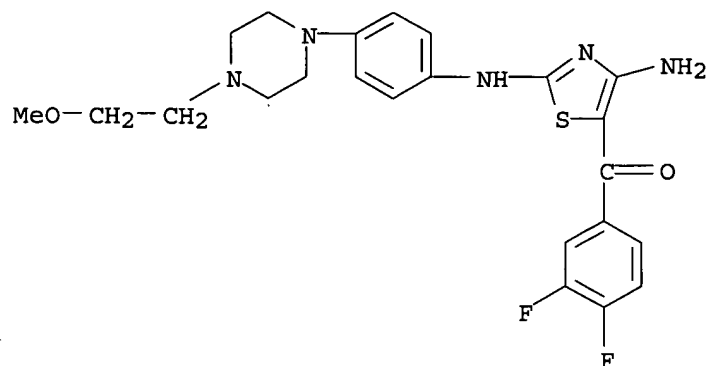
CN Methanone, [4-amino-2-[[4-[4-(2-methoxyethyl)-1-piperazinyl]phenyl]amino]-5-thiazolyl](3,5-difluorophenyl)-, monohydrobromide (9CI) (CA INDEX NAME)



RN 443915-70-6 CAPLUS

CN Methanone, [4-amino-2-[[4-[4-(2-methoxyethyl)-1-piperazinyl]phenyl]amino]-5-thiazolyl](3,4-difluorophenyl)-, monohydrobromide (9CI) (CA INDEX NAME)

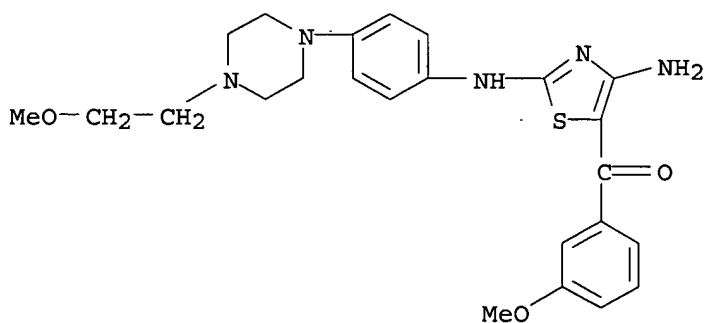
10/042619



● HBr

RN 443915-71-7 CAPLUS

CN Methanone, [4-amino-2-[[4-[4-(2-methoxyethyl)-1-piperazinyl]phenyl]amino]-5-thiazolyl](3-methoxyphenyl)-, monohydrobromide (9CI) (CA INDEX NAME)

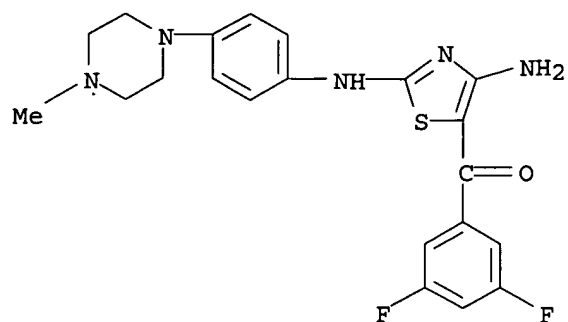


● HBr

RN 443915-74-0 CAPLUS

CN Methanone, [4-amino-2-[[4-(4-methyl-1-piperazinyl)phenyl]amino]-5-thiazolyl](3,5-difluorophenyl)-, monohydrobromide (9CI) (CA INDEX NAME)

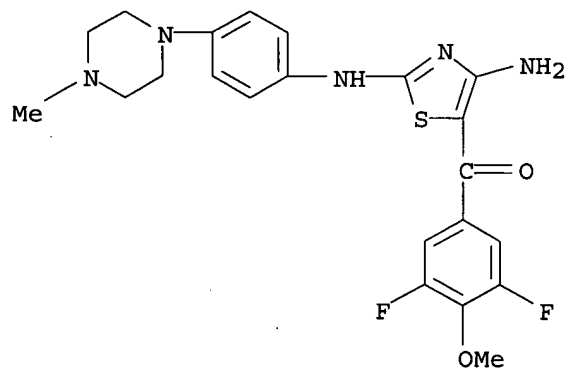
10/042619



● HBr

RN 443915-75-1 CAPLUS

CN Methanone, [4-amino-2-[[4-(4-methyl-1-piperazinyl)phenyl]amino]-5-thiazolyl] (3,5-difluoro-4-methoxyphenyl)-, monohydrobromide (9CI) (CA INDEX NAME)



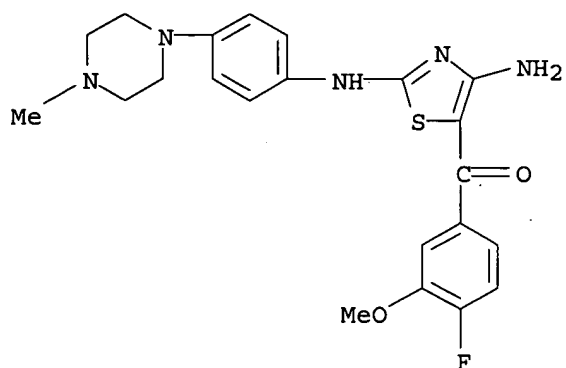
● HBr

RN 443915-76-2 CAPLUS

CN Methanone, [4-amino-2-[[4-(4-methyl-1-piperazinyl)phenyl]amino]-5-thiazolyl] (4-fluoro-3-methoxyphenyl)-, monohydrobromide (9CI) (CA INDEX NAME)

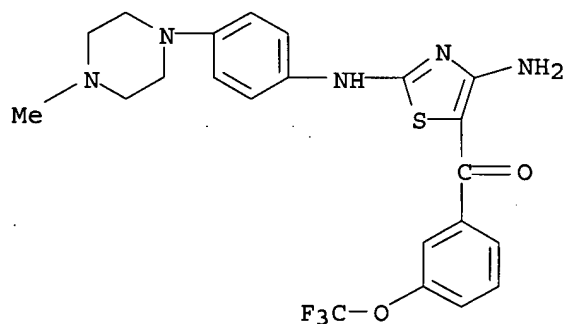


10/042619



● HBr

RN 443915-77-3 CAPLUS  
CN Methanone, [4-amino-2-[[4-(4-methyl-1-piperazinyl)phenyl]amino]-5-thiazolyl][3-(trifluoromethoxy)phenyl]-, monohydrobromide (9CI) (CA INDEX NAME)



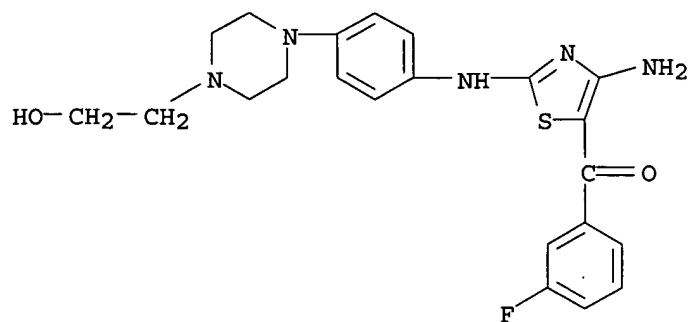
● HBr

RN 443915-78-4 CAPLUS  
CN Methanone, [4-amino-2-[[4-[4-(2-hydroxyethyl)-1-piperazinyl]phenyl]amino]-5-thiazolyl][3-fluorophenyl]-, monoacetate (salt) (9CI) (CA INDEX NAME)

CM 1

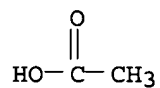
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CMF C22 H24 F N5 O2 S

10/042619



CM 2

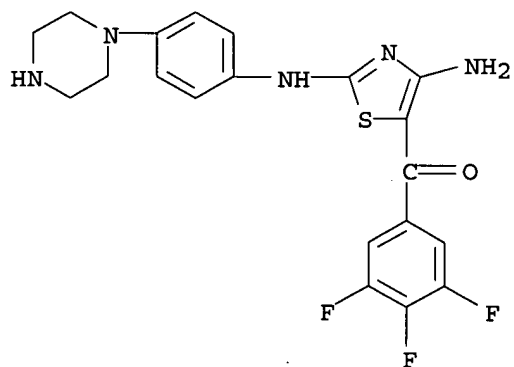
CRN 64-19-7  
CMF C2 H4 O2



RN 443915-79-5 CAPLUS  
CN Methanone, [4-amino-2-[[4-(1-piperazinyl)phenyl]amino]-5-thiazolyl] (3,4,5-trifluorophenyl)-, monoacetate (9CI) (CA INDEX NAME)

CM 1

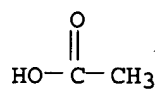
CRN 443914-04-3  
CMF C20 H18 F3 N5 O S



CM 2

CRN 64-19-7  
CMF C2 H4 O2

10/042619



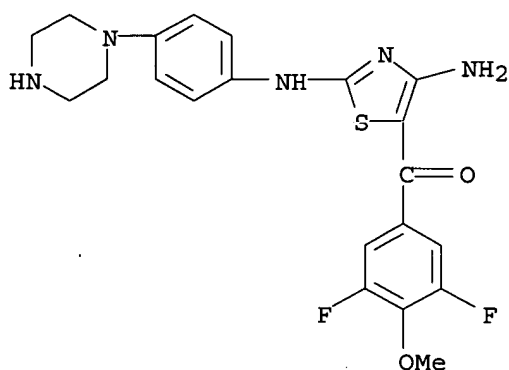
RN 443915-80-8 CAPLUS

CN Methanone, [4-amino-2-[[4-(1-piperazinyl)phenyl]amino]-5-thiazolyl] (3,5-difluoro-4-methoxyphenyl)-, monoacetate (9CI) (CA INDEX NAME)

CM 1

CRN 443914-34-9

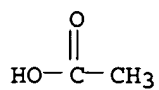
CMF C21 H21 F2 N5 O2 S



CM 2

CRN 64-19-7

CMF C2 H4 O2



RN 443915-81-9 CAPLUS

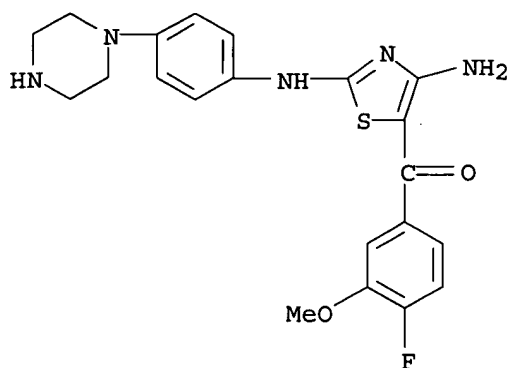
CN Methanone, [4-amino-2-[[4-(1-piperazinyl)phenyl]amino]-5-thiazolyl] (4-fluoro-3-methoxyphenyl)-, monoacetate (9CI) (CA INDEX NAME)

CM 1

CRN 443914-35-0

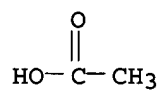
CMF C21 H22 F N5 O2 S

10/042619



CM 2

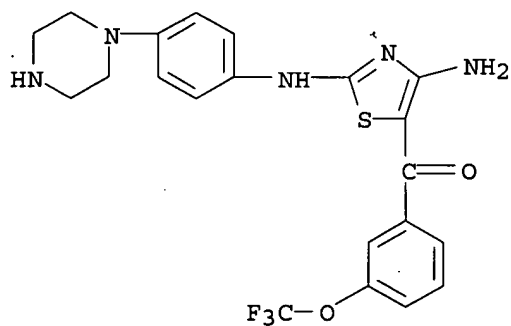
CRN 64-19-7  
CMF C2 H4 O2



RN 443915-82-0 CAPLUS  
CN Methanone, [4-amino-2-[[4-(1-piperazinyl)phenyl]amino]-5-thiazolyl][3-(trifluoromethoxy)phenyl]-, monoacetate (9CI) (CA INDEX NAME)

CM 1

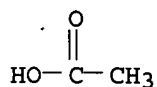
CRN 443914-36-1  
CMF C21 H20 F3 N5 O2 S



CM 2

CRN 64-19-7  
CMF C2 H4 O2

10/042619



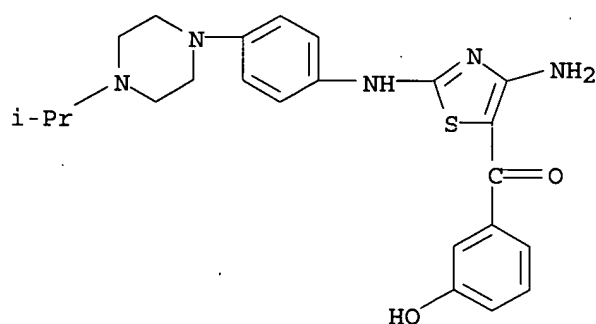
RN 443915-83-1 CAPLUS

CN Methanone, [4-amino-2-[[4-[4-(1-methylethyl)-1-piperazinyl]phenyl]amino]-5-thiazolyl](3-hydroxyphenyl)-, monoacetate (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 443914-38-3

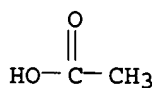
CMF C23 H27 N5 O2 S



CM 2

CRN 64-19-7

CMF C2 H4 O2



RN 443915-84-2 CAPLUS

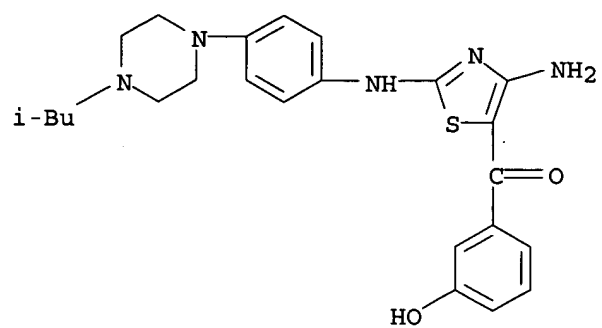
CN Methanone, [4-amino-2-[[4-[4-(2-methylpropyl)-1-piperazinyl]phenyl]amino]-5-thiazolyl](3-hydroxyphenyl)-, monoacetate (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 443914-39-4

CMF C24 H29 N5 O2 S

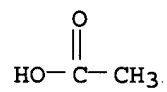
10/042619



CM 2

CRN 64-19-7

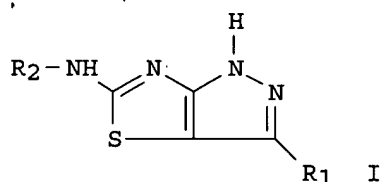
CMF C2 H4 O2



10/042619

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2003 ACS  
AN 2002:123015 CAPLUS  
DN 136:167372  
TI Preparation of 5-amino-3-substituted-pyrazolo[4,5-d]thiazole compds. as  
inhibitors of cyclin-dependent kinases  
IN Chong, Wesley Kwan Mung; Duvadie, Rohit Kumar  
PA Agouron Pharmaceuticals, Inc., USA  
SO PCT Int. Appl., 53 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002012250	A2	20020214	WO 2001-US41466	20010731
	WO 2002012250	B1	20021121		
	WO 2002012250	A3	20020906		
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	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	AU 2001077285	A5	20020218	AU 2001-77285	20010731
	EP 1307462	A2	20030507	EP 2001-955084	20010731
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
	US 2002049215	A1	20020425	US 2001-923432	20010808
	US 6566363	B2	20030520		
PRAI	US 2000-223989P	P	20000809		
	WO 2001-US41466	W	20010731		
OS	MARPAT 136:167372				
GI					



AB The prepn. of pyrazole-thiazole compds. [I; wherein R<sub>1</sub>, R<sub>2</sub>, independently = alkyl, aryl, heteroaryl, cycloalkyl, heterocycloalkyl] that modulate and/or inhibit the activity of cyclin-dependent kinases (CDK's) is, described. Thus, a mixt. of 5-amino-4-bromo-3-phenylpyrazole and 4-methoxyphenylisothiocyanate in dioxane was refluxed to give 74% 5-(4-methoxyphenylamino)-3-phenyl-1H-pyrazolo[4,5-d]thiazole.bul.HBr salt. The invention also describes the use of such compds. in treating cancer as well as other disease states assocd. with unwanted angiogenesis and/or cellular proliferation, such as tumor growth, cell proliferation, diabetic retinopathy, glaucoma, rheumatoid arthritis, and psoriasis, by administering effective amts. of such compds. Biol. data are given.

IT 223784-70-1P

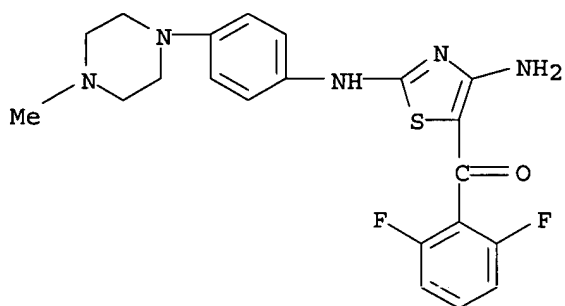
10/042619

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU  
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES  
(Uses)

(prepn. of pyrazole-thiazole compds. as inhibitors of cyclin-dependent  
kinases)

RN 223784-70-1 CAPLUS

CN Methanone, [4-amino-2-[[4-(4-methyl-1-piperazinyl)phenyl]amino]-5-  
thiazolyl](2,6-difluorophenyl)- (9CI) (CA INDEX NAME)

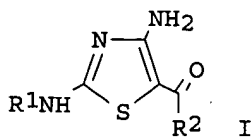




10/042619

L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2003 ACS  
AN 1999:297411 CAPLUS  
DN 130:325142  
TI Preparation of 4-aminothiazole derivatives as inhibitors of  
cyclin-dependent kinases  
IN Chong, Wesley K. M.; Chu, Shao Song; Duvadie, Rohit R.; Li, Lin; Xiao,  
Wei; Yang, Yi  
PA Agouron Pharmaceuticals, Inc., USA  
SO PCT Int. Appl., 172 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9921845	A2	19990506	WO 1998-US22809	19981027
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	CA 2306082	AA	19990506	CA 1998-2306082	19981027
	AU 9913664	A1	19990517	AU 1999-13664	19981027
	AU 738792	B2	20010927		
	EP 1056732	A2	20001206	EP 1998-957393	19981027
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	SI 20324	C	20010228	SI 1998-20068	19981027
	EE 200000289	A	20010615	EE 2000-200000289	19981027
	BR 9815200	A	20011016	BR 1998-15200	19981027
	EP 1215208	A2	20020619	EP 2002-1881	19981027
	EP 1215208	A3	20020904		
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	US 6569878	B1	20030527	US 1998-179744	19981027
	NO 2000001955	A	20000616	NO 2000-1955	20000414
	LT 4855	B	20011126	LT 2000-33	20000414
	MX 200003812	A	20001113	MX 2000-3812	20000418
	LV 12592	B	20010720	LV 2000-51	20000503
	BG 104478	A	20010228	BG 2000-104478	20000526
PRAI	US 1997-63634P	P	19971027		
	US 1997-63666P	P	19971028		
	EP 1998-957393	A3	19981027		
	WO 1998-US22809	W	19981027		
OS	MARPAT 130:325142				
GI					



AB Title compds. [I; wherein R1 is a (un)substituted group selected from:

alkyl, alkenyl, alkoxyl, alc., carbocyclic or heterocyclic, monocyclic or fused or non-fused polycyclic, cycloalkyl; carbocyclic or heterocyclic, monocyclic or fused or non-fused polycyclic, aryl, etc.; R2 is a carbocyclic or heterocyclic, monocyclic or fused or non-fused polycyclic, ring structure having a substituent at the position adjacent to the point of attachment, which ring structure is optionally further substituted, where each substituent of R independently is a halogen, haloalkyl, C-alkyl, C-alkenyl, C-alkynyl, hydroxyl, C-alkoxyl, amino, nitro, thiol, thioether, imine, cyano, amido, phosphonato, phosphine, carboxyl, thiocarbonyl, sulfonyl, sulfonamide, ketone, aldehyde, ester, oxygen, carbocyclic or heterocyclic, monocyclic or fused or non-fused polycyclic, cycloalkyl; or carbocyclic or heterocyclic, monocyclic or fused or non-fused polycyclic, aryl], a pharmaceutically acceptable salt, a prodrug, pharmaceutically active metabolite of title compd., or pharmaceutically acceptable salt thereof, are prepd. as inhibitors of cyclin-dependent kinases (CDKs: CDK1, CDK2, CDK4, and CDK6) to the therapeutic or prophylactic use of pharmaceutical compns. contg. such compds. and to methods of treating malignancies and other disorders by administering effective amts. of such compds. Thus, I (R1 = C6H5; R2 = 3-NO2C6H4) was prepd. with 52% yield from cyanamide, isothiocyanate, and 2-bromo-3'-nitroacetophenone in the presence of sodium.

IT 223784-60-9P 223784-70-1P 223784-71-2P

223784-76-7P 223784-87-0P 223784-88-1P

223784-91-6P 223784-92-7P 223784-96-1P

223784-97-2P 223785-03-3P 223785-10-2P

223785-14-6P 223785-16-8P 223785-21-5P

223785-23-7P 223785-25-9P 223785-27-1P

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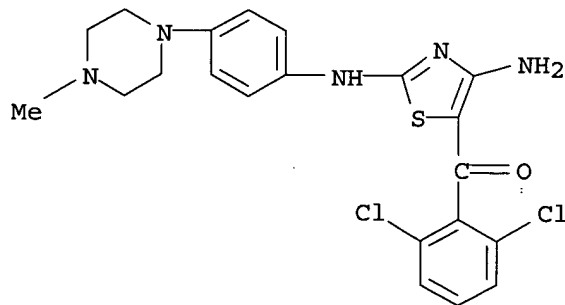
223785-51-1P 223785-52-2P 223785-53-3P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(Prepn. of 4-aminothiazoles as inhibitors of cyclin-dependent kinases)

RN 223784-60-9 CAPLUS

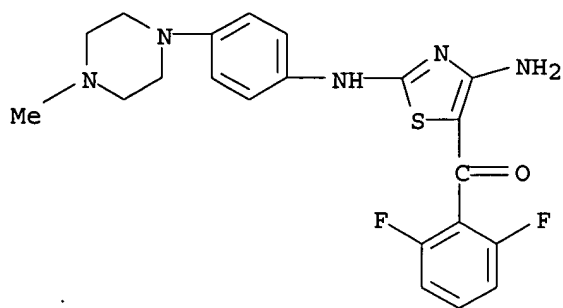
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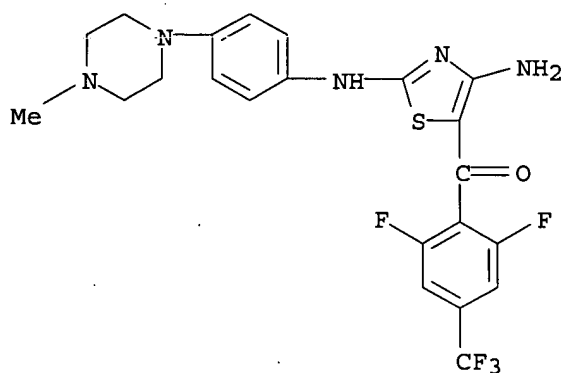
RN 223784-70-1 CAPLUS

CN Methanone, [4-amino-2-[[4-(4-methyl-1-piperazinyl)phenyl]amino]-5-thiazolyl](2,6-difluorophenyl)- (9CI) (CA INDEX NAME)

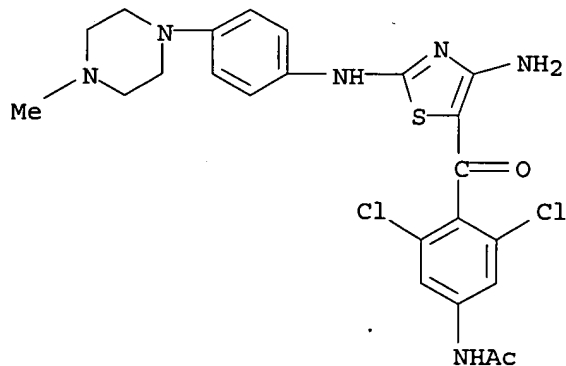
10/042619



RN 223784-71-2 CAPLUS  
CN Methanone, [4-amino-2-[[4-(4-methyl-1-piperazinyl)phenyl]amino]-5-thiazolyl][2,6-difluoro-4-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

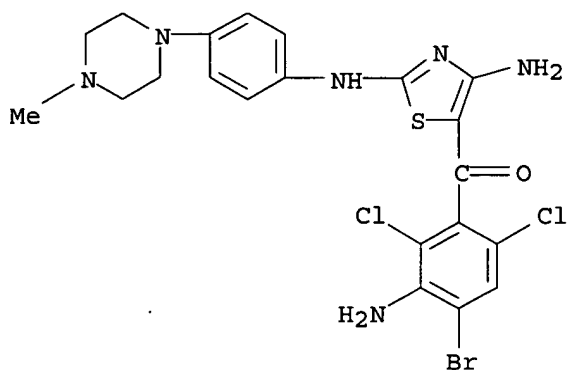


RN 223784-76-7 CAPLUS  
CN Acetamide, N-[4-[[4-amino-2-[[4-(4-methyl-1-piperazinyl)phenyl]amino]-5-thiazolyl]carbonyl]-3,5-dichlorophenyl]- (9CI) (CA INDEX NAME)



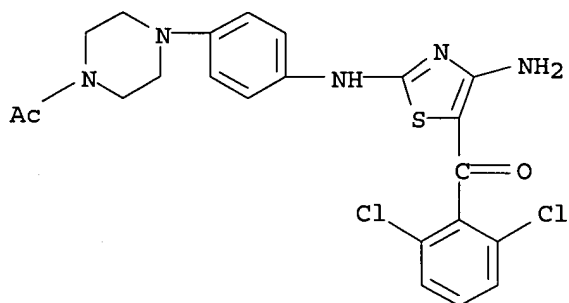
RN 223784-87-0 CAPLUS  
CN Methanone, (3-amino-4-bromo-2,6-dichlorophenyl)[4-amino-2-[[4-(4-methyl-1-piperazinyl)phenyl]amino]-5-thiazolyl]- (9CI) (CA INDEX NAME)

10/042619



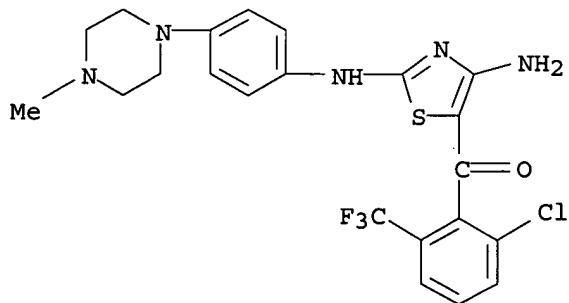
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CN Piperazine, 1-acetyl-4-[[4-[[4-amino-5-(2,6-dichlorobenzoyl)-2-thiazolyl]amino]phenyl]- (9CI) (CA INDEX NAME)



RN 223784-91-6 CAPLUS

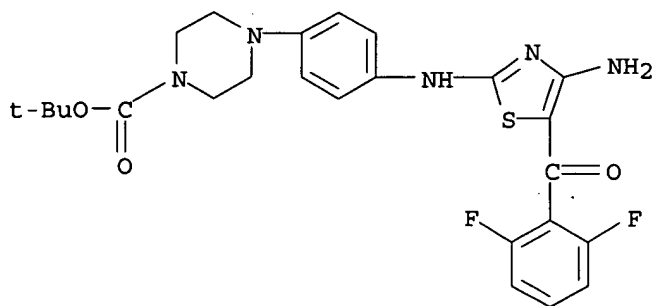
CN Methanone, [4-amino-2-[[4-(4-methyl-1-piperazinyl)phenyl]amino]-5-thiazolyl][2-chloro-6-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



RN 223784-92-7 CAPLUS

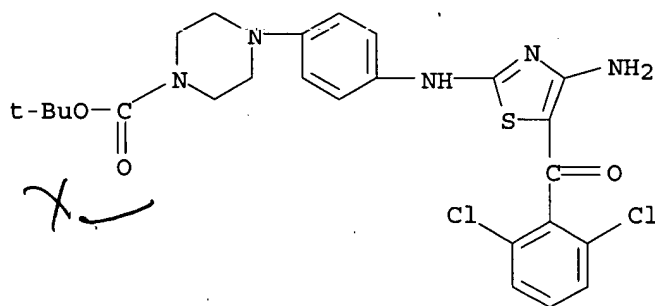
CN 1-Piperazinecarboxylic acid, 4-[[4-[[4-amino-5-(2,6-difluorobenzoyl)-2-thiazolyl]amino]phenyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

10/042619



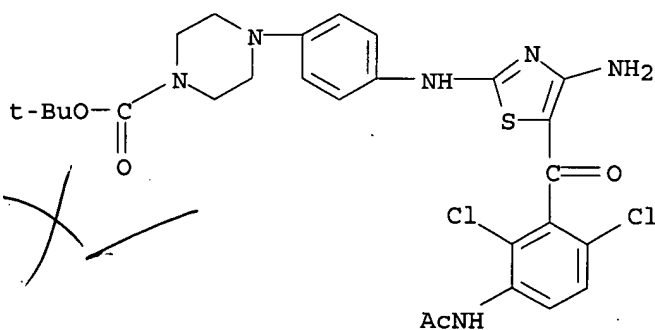
RN 223784-96-1 CAPLUS

CN 1-Piperazinecarboxylic acid, 4-[4-[[4-amino-5-(2,6-dichlorobenzoyl)-2-thiazolyl]amino]phenyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 223784-97-2 CAPLUS

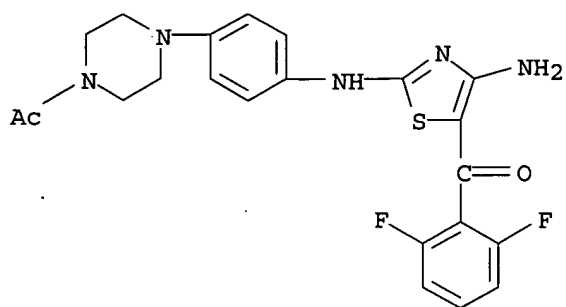
CN 1-Piperazinecarboxylic acid, 4-[4-[[5-[3-(acetylamino)-2,6-dichlorobenzoyl]-4-amino-2-thiazolyl]amino]phenyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 223785-03-3 CAPLUS

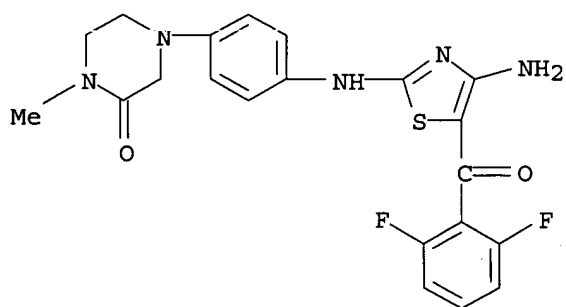
CN Piperazine, 1-acetyl-4-[4-[[4-amino-5-(2,6-difluorobenzoyl)-2-thiazolyl]amino]phenyl]- (9CI) (CA INDEX NAME)

10/042619



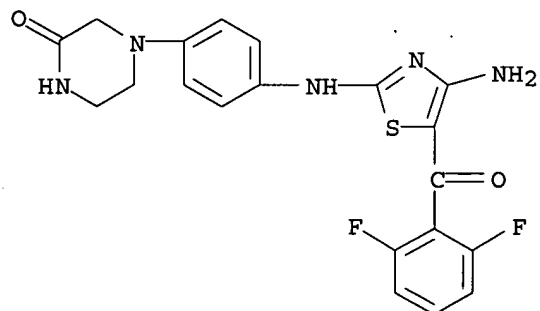
RN 223785-10-2 CAPLUS

CN Piperazinone, 4-[4-[[4-amino-5-(2,6-difluorobenzoyl)-2-thiazolyl]amino]phenyl]-1-methyl- (9CI) (CA INDEX NAME)



RN 223785-14-6 CAPLUS

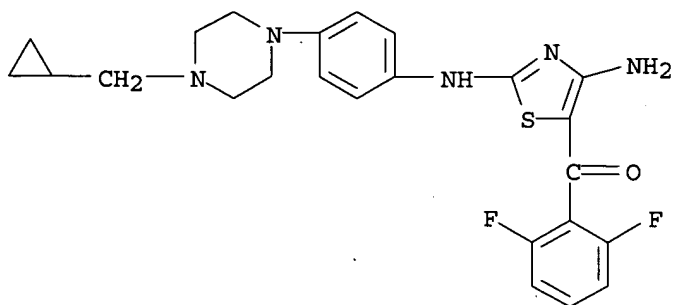
CN Piperazinone, 4-[4-[[4-amino-5-(2,6-difluorobenzoyl)-2-thiazolyl]amino]phenyl]- (9CI) (CA INDEX NAME)



RN 223785-16-8 CAPLUS

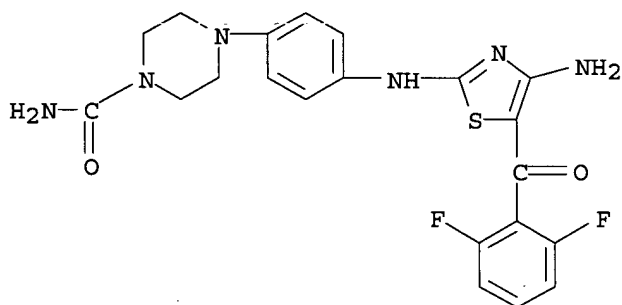
CN Methanone, [4-amino-2-[[4-[4-(cyclopropylmethyl)-1-piperazinyl]phenyl]amino]-5-thiazolyl](2,6-difluorophenyl)- (9CI) (CA INDEX NAME)

10/042619



RN 223785-21-5 CAPLUS

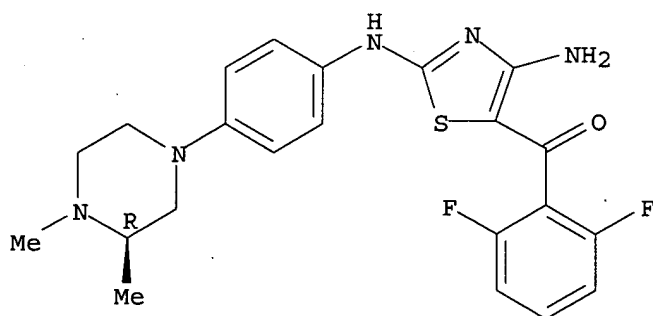
CN 1-Piperazinecarboxamide, 4-[4-[[4-amino-5-(2,6-difluorobenzoyl)-2-thiazolyl]amino]phenyl]- (9CI) (CA INDEX NAME)



RN 223785-23-7 CAPLUS

CN Methanone, [4-amino-2-[[4-[(3R)-3,4-dimethyl-1-piperazinyl]phenyl]amino]-5-thiazolyl](2,6-difluorophenyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

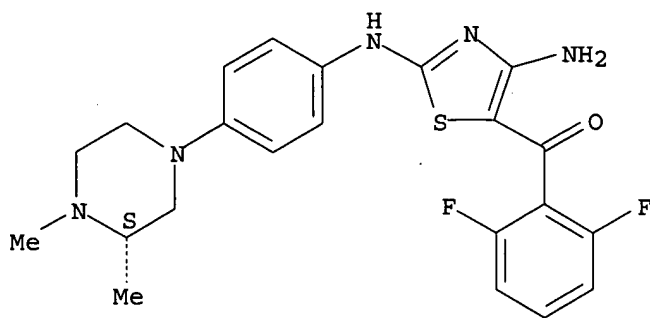


RN 223785-25-9 CAPLUS

CN Methanone, [4-amino-2-[[4-[(3S)-3,4-dimethyl-1-piperazinyl]phenyl]amino]-5-thiazolyl](2,6-difluorophenyl)- (9CI) (CA INDEX NAME)

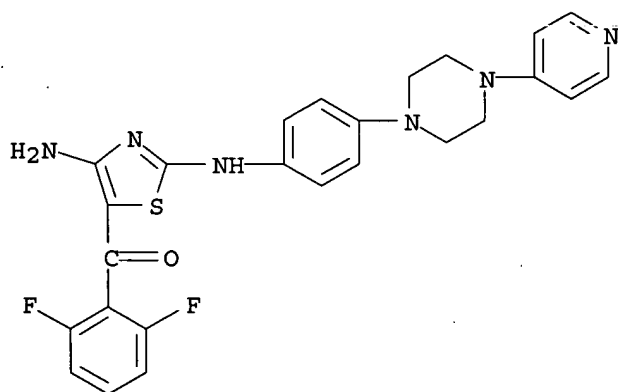
Absolute stereochemistry.

10/042619



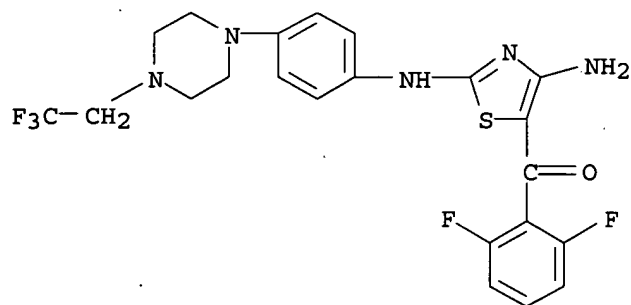
RN 223785-27-1 CAPLUS

CN Methanone, [4-amino-2-[[4-[4-(4-pyridinyl)-1-piperazinyl]phenyl]amino]-5-thiazolyl](2,6-difluorophenyl)- (9CI) (CA INDEX NAME)



RN 223785-31-7 CAPLUS

CN Methanone, [4-amino-2-[[4-[4-(2,2,2-trifluoroethyl)-1-piperazinyl]phenyl]amino]-5-thiazolyl](2,6-difluorophenyl)- (9CI) (CA INDEX NAME)

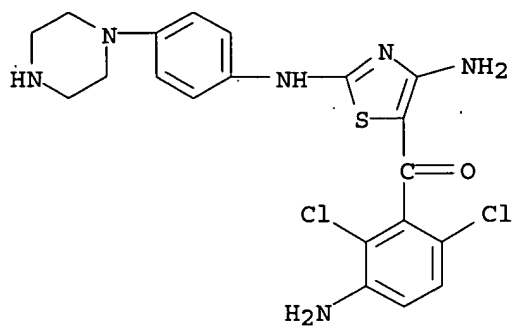


RN 223785-44-2 CAPLUS

CN Methanone, (3-amino-2,6-dichlorophenyl)[4-amino-2-[[4-(1-piperazinyl)phenyl]amino]-5-thiazolyl]-, trihydrochloride (9CI) (CA INDEX NAME)



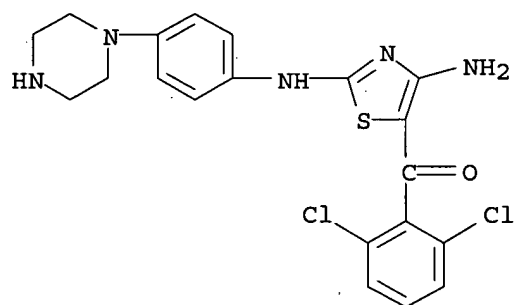
10/042619



●3 HCl

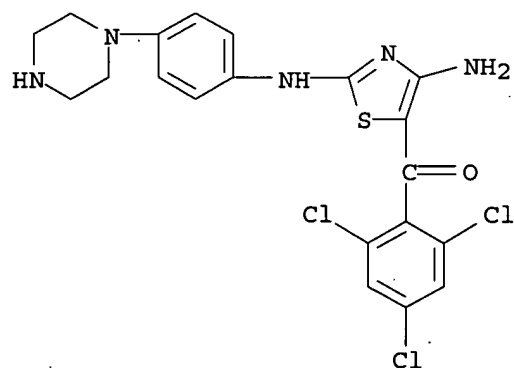
RN 223785-45-3 CAPLUS

CN Methanone, [4-amino-2-[[4-(1-piperazinyl)phenyl]amino]-5-thiazolyl] (2,6-dichlorophenyl)- (9CI) (CA INDEX NAME)



RN 223785-46-4 CAPLUS

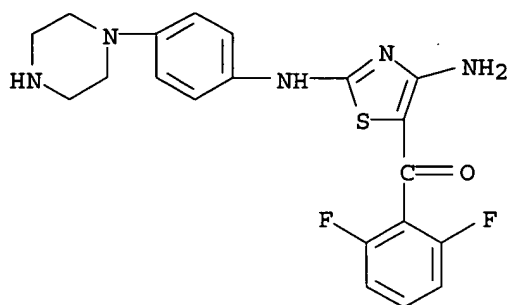
CN Methanone, [4-amino-2-[[4-(1-piperazinyl)phenyl]amino]-5-thiazolyl] (2,4,6-trichlorophenyl)- (9CI) (CA INDEX NAME)



RN 223785-47-5 CAPLUS

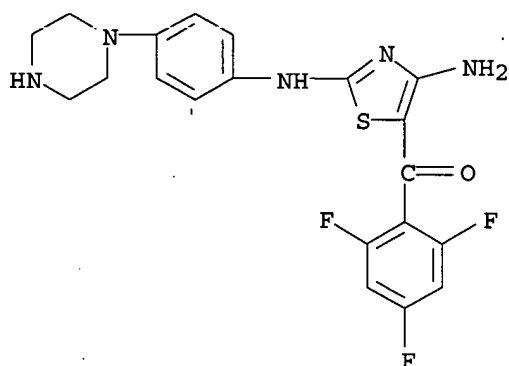
CN Methanone, [4-amino-2-[[4-(1-piperazinyl)phenyl]amino]-5-thiazolyl] (2,6-difluorophenyl)- (9CI) (CA INDEX NAME)

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RN 223785-49-7 CAPLUS

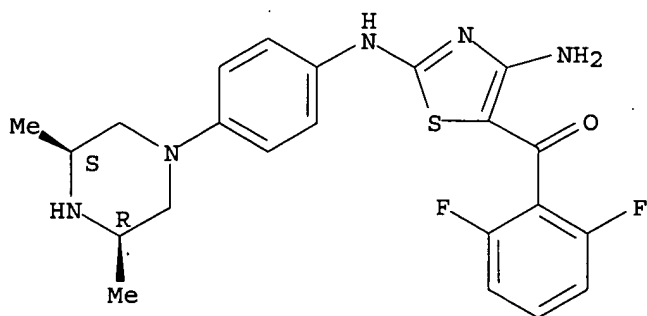
CN Methanone, [4-amino-2-[[4-(1-piperazinyl)phenyl]amino]-5-thiazolyl] (2,4,6-trifluorophenyl)- (9CI) (CA INDEX NAME)



RN 223785-51-1 CAPLUS

CN Methanone, [4-amino-2-[[4-[(3R,5S)-3,5-dimethyl-1-piperazinyl]phenyl]amino]-5-thiazolyl] (2,6-difluorophenyl)-, rel- (9CI) (CA INDEX NAME)

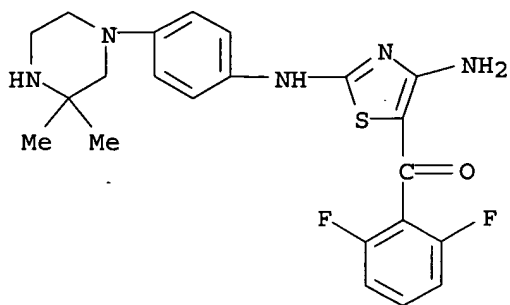
Relative stereochemistry.



RN 223785-52-2 CAPLUS

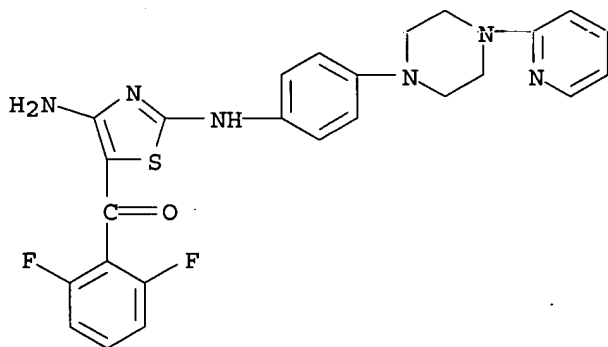
CN Methanone, [4-amino-2-[[4-(3,3-dimethyl-1-piperazinyl)phenyl]amino]-5-thiazolyl] (2,6-difluorophenyl)- (9CI) (CA INDEX NAME)

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RN 223785-53-3 CAPLUS

CN Methanone, [4-amino-2-[[4-[4-(2-pyridinyl)-1-piperazinyl]phenyl]amino]-5-thiazolyl](2,6-difluorophenyl)- (9CI) (CA INDEX NAME)



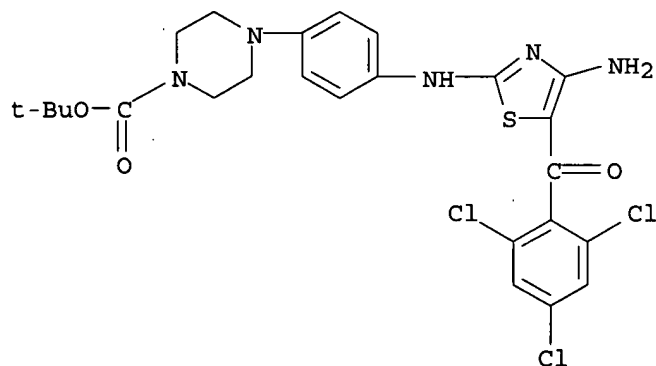
IT 223786-31-0P 223786-32-1P 223786-41-2P  
223786-47-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(Prepn. of 4-aminothiazoles as inhibitors of cyclin-dependent kinases)

RN 223786-31-0 CAPLUS

CN 1-Piperazinecarboxylic acid, 4-[4-[[4-amino-5-(2,4,6-trichlorobenzoyl)-2-thiazolyl]amino]phenyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

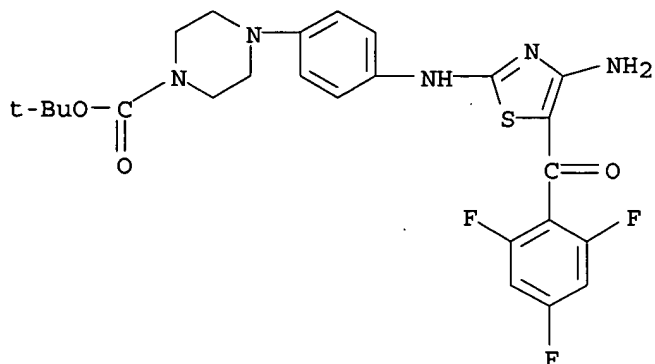


RN 223786-32-1 CAPLUS

CN 1-Piperazinecarboxylic acid, 4-[4-[[4-amino-5-(2,4,6-trifluorobenzoyl)-2-

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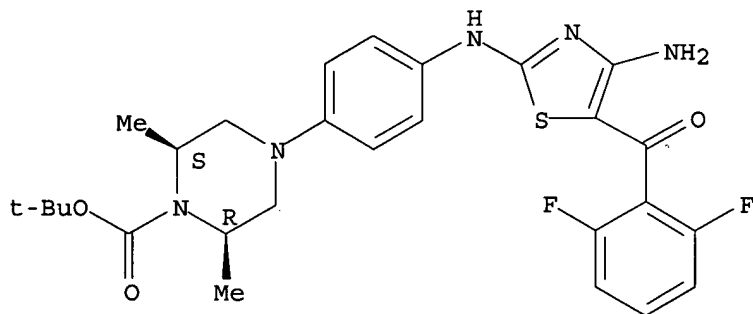
thiazolyl]amino]phenyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 223786-41-2 CAPLUS

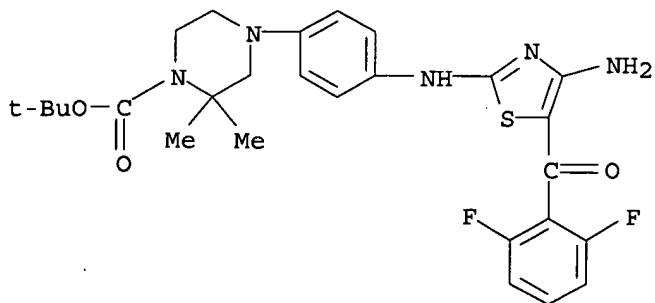
CN 1-Piperazinecarboxylic acid, 4-[4-[[4-amino-5-(2,6-difluorobenzoyl)-2-thiazolyl]amino]phenyl]-2,6-dimethyl-, 1,1-dimethylethyl ester, (2R,6S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 223786-47-8 CAPLUS

CN 1-Piperazinecarboxylic acid, 4-[4-[[4-amino-5-(2,6-difluorobenzoyl)-2-thiazolyl]amino]phenyl]-2,2-dimethyl-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



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FULL ESTIMATED COST

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